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Speech Processing I

Place: Room A

Chairs: Farshad Almasgnaj, Amirkabir University of Technology

Ahmad Akbari, Iran University of Science and Technology

A3A.2 Performance Analysis of Linear Feature

Transformations in Speech Recognition Systems "%

Seyyed Iman Shirinbayan, Biomedical Engineering Department, Amirkabir University of Technology (Tehran Polytechnic)

Farshad Almasganj, Yasser Shekofteh

Radar and Sonar I

Place: Room B

Chairs: Mohammad H. Bastani, Sharif University of Technology

Hossein Khoshbin, Ferdowsi University of Mashhad

A3B.2 Improving Performance of Adaptive Radar Detectors in

Nonhomogeneous Environment ***

N. Aghaabdellahian, Department of Electrical and Computer Engineering, Isfahan University of Technology, Isfahan, Iran

M.Modarres-Hashemi

A3B.3 A Computationally Efficient Direction-of-Arrival

Estimation Algorithm, Robust Against Coherent Sources and Small Sample Size "%

 $Mostafa\ Rahmani,\ Department\ of\ Electrical\ Engineering\ Sharif$

University of Technology, Tehran, Iran

Mohammad H. Bastani

Sara Shahraeeni, Department of Electrical Engineering K.N.Toosi

University of Technology, Tehran, Iran

Communication Networks

Room C Place:

Chairs: Hossein Saeedi, Isfahan University of Technology

Saied Hosseini-Khayat, Ferdowsi University of Mashhad

A3C.1 On the Impact of Retrials on Traffic Burstiness "%

Khosrow Sohraby, Kiseon Kim

A3C.2 A new sensor scheduling method for distributed sensor

network "&%

Behrooz Safarinejadian, Faculty of Electrical and Electronics Engineering, Shiraz University of Technology, Shiraz, Iran

Abdolah Rahimi, Mohiyeddin Mozaffari

A3C.3 Novel Broadcast Schemes based on Network Codes for

Ad Hoc Networks with Noisy Wireless Links "&+

Reza Ebrahimi-Ghiri, Amirkabir University of Technology Alireza Keshavarz-Haddad, Shiraz University

A3C.4 Weighted Decision Fusion vs. Counting Rule over

Wireless Sensor Networks: A Realistic Comparison"' '

S. Hamed Javadi, Department of Electrical Engineering Ferdowsi

University of Mashhad, Mashhad, Iran

Ali Peiravi

A3C.5 **Fast Index Coding Algorithms for Multi-rate Wireless** Communications - -

Zeinab Sadat Javanmard, School of Electrical and Computer

Engineering of Shiraz University

Azizolah Jamshidi, Alireza Keshavarz hadad

Machine Vision I

Place: Room D

Chairs: Alireza Seyedin, Ferdowsi University of Mashhad

Amir Hossein Taherinia, Ferdowsi University of Mashhad

A3D.4 Introducing a New Multimodal Database from Twins'

Biometric Traits "()

Hamid Behravan, School of Computing University of Eastern

Finland

Karim Faez, Department of Electrical Engineering, Amirkabir

University of Technology, Tehran, Iran

A3D.5 Hybrid Method for Hand Gesture Recognition Based on Combination of Haar-Like and HOG Features") %

Sudabeh Ghafouri, *University College of Nabi Akram (UCNA)*,

Tabriz, Iran

 ${\bf Hadi\ Seyedarabi,}\ Faculty\ of\ Electrical\ and\ Computer$

Engineering, University of Tabriz, Tabriz, Iran

Microgrid and Distribution Networks I

Place: Room G

Chairs: Mohammad R. Mozayeni, Razavi Khorasan Power Distribution

Co.

Habib Rajabi-Mashhadi, Ferdowsi University of Mashhad

A3G.1 A Dynamic GA-Based Approach for Optimal Short-Term

Operation of a Micro-Grid"))

MasoudBashari, SNL, School of ECE, University of Tehran Mahmoud Salamat, MohamadTavakkolinia, AshkanRahimi-Kian

A3G.2 Load Shedding in Microgrids *** \$

NedaHajimohamadi, University of Kurdistan

Hassan Bevrani

Semiconductor Devices

Place: Room H

Chairs: Mojtaba Joodaki, Ferdowsi University of Mashhad

A3H.1 Fabrication and Characterization of Polyaniline Based

Schottky Diode ***

Asgar Hajibadali, Faculty of Electrical and Computer engineering Hakim Sabzevari University Sabzevar, Iran Majid Baghaei Nejhad

A3H.3 Homo- and Hetero-epitaxial Growth of InSb and AlxIn1xSb Layers by Molecular Beam Epitaxy"+%

Mahdi Mohammadkhani, Department of Electrical Engineering, Iran University of Science and Technology (IUST), Tehran, Iran Sattar Mirzakuchaki

Seyyed Ahmad Mohades Kassai, Electrical Engineering Department, California State University, Long Beach, California, USA

Optimal Control I

Place: Room J

A3J.3

Chairs: Mojtaba Rohani, Gonabad University

Mohammad B. Naghibi-Sistani, Ferdowsi University of Mashhad

Invited talk Advances In Epidemic Models "B#5

Asier Ibeas, Departament de Telecomunicació i Enginyeria de Sistemes, Escola d'Enginyeria. Universitat Autònoma de Barcelona, Barcelona, Spain

A3J.1 A New Control Allocation Methodology Based on the Pseudo Inverse along the Null Space "+*

Davoud Bozorgnia, K.N. Toosi University of technology, Tehran,

Iran Ali Khaki Sedigh

Directional Enlargement of Attraction Domainvia HOPE Method", \$

Navid Khajepour, Young Researchers Club and elites, Mashhad Branch, Islamic Azad University, Mashhad, Iran

Reihane Kardehi Moghaddam, Department of Electrical engineering, Islamic Azad University, Mashhad, Iran

Robotics and Automation I

Place: Room K

Chairs: Hamid Taghirad, K. N. Toosi University of Technology

Kamal Hosseini-Sani, Ferdowsi University of Mashhad

A3K.3 An Efficient Fuzzy Method for Path Planning a Robot in

Complex Environments", *

Pooya Mobadersany, Department of Electrical and Computer

Engineering, University of Tabriz, Tabriz, Iran Sohrab Khanmohammadi, Sehrane Ghaemi

A3K.4 Designing a Fuzzy Logic Controller for a Quadruped

Robot Using Human Expertise Extraction "- &

Ramtin Mohammadi Zand, Artificial Creatures Lab, Electrical Engineering school, Sharif University of Technology, Tehran, Iran

Saeed Bagheri Shouraki

A3K.5 Fuzzy Logic & Fuzzy Sliding Mode Tracking Control of Non-holonomic Unicycle Wheeled Mobile Robots --- ,

Afagh Mohagheghi, School of Electrical Engineering, Shiraz

University, Shiraz, Iran Faridoon Shabaninia

Maryam Salmirfard, School of Electrical Engineering, Amirkabir

University of Technology, Tehran, Iran

Poster Session (Electronic Engineering and Control Engineering)

Place: Room P

A3P.02 Implementation of an AMR Magnetic Sensor by Means

of a Microcontroller to Achieve More Accurate Response "% (

H. Bolandi, *Iran University of Science & Technology* N. Riahi, M. Esmaeilzadeh, M. Abedi and B. Ghorbani

A3P.05 Delay-Dependent Filtering for Stochastic Nonlinear

Genetic Regulatory Networks with Time-Varying Delays and Extrinsic Noises "%-

N. S. Hosseini, School of Electrical and Computer Engineering, Tarbiat Modares University S. Ozgoli

A3P.07 Kernel Least Mean Square Algorithm in Control of Nonlinear Systems "%)

Zinat Mazloomi, Faculty of Electerical and Robotic Engineering, Shahrood University of Technology, Shahrood

Heydar Tusian Shandiz

Hossein Faramarzpour, Department of Mechanical Engineering, Faculty of Engineering, Tarbiat Modares University, Tehran

A3P.16 Impact of Carbon Material on RF MEMS Switch "% \$\$

Yasser Mafinejad, School of Engineering, Deakin University, Geelong, VIC 3216, Australia

Abbas Z. Kouzani

Majid Zarghami, MEMS and RF MEMS Research Group, School of Electrical and Computer Engineering, Sadjad Institute of Higher Education, Mashhad, Iran

Khalil Mafinezhad

A3P.17 Effects of single-walled carbon nanotube defects and alignment angles on percolation conductivity in carbon nanotubes thin film "%

M. Berahman, School of Electrical and Computer Eng., Shiraz University, Shiraz, Iran

M. Taheri, M. H. Sheikhi, A. Zarifkar

A3P.18 A Numerical Study of a New Four-layer-substrate Closing Device *** &

Tara afra, Electrical Engineering Department Islamic Azad University South Tehran Branch

Seyed Nasrolah Anousheh, *Central Tehran branch Tehran, Iran.* Ahmad Taghinia

Morteza Fathipour, Device Modeling and Simulation Lab Tehran university Tehran, Iran

Poster Session (Electronic Engineering and Control Engineering)

A3P.19 A Novel 2-Pole MEMS Tunable Bandpass Filter for

Place:

A3P.21

Room P

Satellite Communication Applications "% (

Sadegh Sabbagh, Integrated Circuit Laboratory, Ferdowsi University of Mashhad, Mashhad, Iran Amir Akbarzadeh, Ashkan Mofidi.

Khalil Mafinezhad, Electrical Engineering Department, Ferdowsi University of Mashhad, Mashhad, Iran

Compare Noise Characteristic of DC-HEMT and HEMT^{***}% -

Sonia sadeghi ,Department of Electrical Engineering, Islamic Azad University, South Tehran Branch, Tehran, Iran

Mehdi vadizadeh, Department of Electrical Engineering, Islamic

Azad University, Abhar Branch, Abhar, Iran Rahim faez, Sharif University of technology

Poter Session (Computer Engineering and Biomedical Engineering)

Place: Room Q

A3Q.05 A Novel Adaptive Agent-Based Algorithm to Find Mixed

Nash Equilibrium in Static Games "%'

Fateme Daburi Farimani, Faculty Of Engineering, Ferdowsi University Of Mashhad, Mashhad, Iran.
Navid Yektay, Habib Rajabi Mashhadi

A3Q.07 Exploring the Design Space for Area-Efficient Embedded VLIW Packet Processing Engine "%,

M. HassanNajafi, School of Electrical and Computer Engineering, Faculty of Engineering, University of Tehran, Tehran, Iran Mostafa E. Salehi

A3Q.08 Energy-Aware ILP Formulation for Application Mapping on NoC Based MPSoCs "% (

Elyas Khajekarimi, Multimedia Processing Laboratory, School of Electrical and Computer Engineering, College of Engineering, University of Tehran Mahmoud Reza Hashemi

A3Q.10 Finding Association Rules inLinked Data, a Centralization Approach "% -

Reza Ramezani, Electrical & Computer Engineering Isfahan University of Technology, Iran Mohammad Saraee, School of Computing, Science and Engineering University of Salford, Manchester, UK Mohammad Ali Nematbakhsh, Department of Computer Engineering University of Isfahan, Iran

A3Q.11 Genetic-based Feature Selection for Spam Detection "%"

SeyyedHosseinSeyyediArani, Islamic Azad University, Qazvin Branch, Qazvin, Iran SaeedMozaffari, Electrical and Computer Engineering Department, Semnan University

S. Abolfazl Hosseini, Faculty of Electrical and Computer Engineering, Tarbiat Modares University, Tehran, Iran Hassan Ghassemian

A3Q.15 Ensemble-based Classifiers for Cancer Classification Using Human Tumor Microarray Data *** 4+*

Argin Margoosian, Dept. of Electrical and Computer Engineering, Yazd University, Yazd, Iran Jamshid Abouei

Poter Session (Computer Engineering and Biomedical Engineering)

Place: Room Q

A3Q.18 Linear Features, Principal Component Analysis, and Support Vector Machine for Epileptic Seizure Prediction Progress "%"

Peyvand Ghaderyan, Computational Neuroscience Laboratory, Department of Biomedical Engineering, Faculty of Electrical Engineering, Sahand University of Technology, Tabriz, Iran Ataollah Abbasi, Mohammad Hossein Sedaaghi

A3Q.19 Classification Of Normal and Abnormal Lung Sounds
Using Neural Network and Support Vector Machines "%,

Samira Abbasi, Computational Neuroscience Laboratory, Department of Biomedical Engineering, Faculty of Electrical Engineering, Sahand University of Technology, Tabriz, Iran Roya Derakhshanfar, Ataollah Abbasi, Yashar Sarbaz

Poster Session (Communications)

Place	Room R
A3R.01	A New Method for Increasing the Lifetime of Network and Reducing Energy Consumption in Wireless Sensor Network "% & Jaber Beitollahzadeh, Department of Electrical Engineering Iran University of Science and Technology, Narmak, Tehran, Iran Abdollah Amirkhani Shahraki, Karim Mohammadi
A3R.13	Improving Efficiency in Resource Allocation Of OFDMA Femtocell Networks "% + Keyvan Aghababaiyan, Sharif University of Technology, Tehran Mohammad Reza Pakravan

Poster Session (Power Engineering)

Place: Room S A3S.06 The Effect of Various Types of DG Interconnection Transformer on Ferroresonance ** & & & M. Esmaeili, Shahed University, Tehran, Iran M. Rostami G.B. Gharehpetian, Amirkabir University of Technology, Tehran, A3S.14 **Optimal design of Inverter Based Distributed Generation** in Grid-Connected Mode of Operation Using Genetic 5 [cf] \alpha \cdots &\$, \cdots R. Toorani, Faculty of Eng., Tafresh University, Tafresh, Iran A. Radmehr, S. A. Hosseini A3S.15 **Optimal Sectionalizing Switches and DGPlacement** Considering Critical System Condition *** & & & MaisamNematollahi, Department of Electrical Najafabad Branch, Islamic Azad Mahdi Tadayon, Behrad Consulting Engineers

Image Processing and Recognition I

Place: Room A

Chairs: Mohammad. H. Ghasemian, Tarbiat-Modarres University

Morteza Khademi, Ferdowsi University of Mashhad

A4A.1 Online Signature Verification :

A Persian-Language Specific Approach *** & ***

M. E. Yahyatabar, Electrical and computer Department Babol

University of Technology Y. Baleghi, M. R. Karami

A4A.2 Bag of Visual Words Approach for Image Retrieval Using Color Information *** &&("""

Naimeh Sadat Mansoori, Department of Electrical and Computer Engineering Isfahan University of Technology, Isfahan, Iran

Mansour Nejati, Parvin Razzaghi, Shadrokh Samavi

A4A.3 Iron Ore Green Pellet Diameter Measurement by Using of Image Processing Techniques *** &

Mahdi Heydari, Digital Signal processing Research Lab, Department of Electrical and Computer Engineering, Isfahan

University of Technology

Rassoul Amirfattahi, Behzad Nazari

Alireza Bastani, Department of Mechanical Engineering, Isfahan

University of Technology

A4A.4 Adaptive Expansion of Training Samples for Improving Hyperspectral Image Classification Performance ** *

Maryam Imani, Faculty of Electrical and Computer Engineering,

Tarbiat Modares University, Tehran, Iran

Hassan Ghassemian

A4A.6 Using GLCM and Gabor Filters for Classification of PAN Images "& &

Fardin Mirzapour, Faculty of Electrical and Computer Engineering, Tarbiat Modares University, Tehran, Iran

Hassan Ghassemian

Coding

Place: Room B

Chairs: Hengameh Keshavarz, University of Sistan & Baluchestan

Ghosheh Abed Hodtani, Ferdowsi University of Mashhad

A4B.3 A New Hybrid Decoding Algorithm for LDPC Codes

Based on the Improved Variable Multi Weighted Bit-

Flipping and BP Algorithms "&(,

Ehsan Olyaei Torshizi, Young Researchers Club and Elites, Mashhad Branch, Islamic Azad University, Mashhad, Iran Hossein Sharifi, Meysam Seyrafi, Dept. of Electrical & Computer

Engineering, Shahid Beheshti University, Tehran, Iran

A4B.5 Attack Signature Matching using Graphics Processors

in High-Performance Intrusion Detection Systems "&) (
Payam Mahdinia, Isfahan University of Technology

Mehdi Berenjkoob

Hedayat Vatankhah, Payampardaz Engineering Co

Wireless Communications I

Place: Room C

Chairs: Masoumeh Nasiri, Sharif University of Technology

Paeiz Azmi, Tarbiat Modares University

A4C.3 Double-Layered Coordinated Resource Allocatio In Multi-Cell MIMO-OFDMA Systems ** %

Ahmad Kasaeyan, Department of Electrical and Computer Engineering K.N. Toosi University of technology, Tehran, Iran

Kamal Mohamed-pour

Seyed Mehdi Hosseini Andargoli, Department of Electrical and

Computer Engineering, Babol Noshirvani University of

technology, Babol, Iran

A4C.4 A Cyclic Correlation-Based Cooperative Spectrum Sensing Method for OFDM Signals ***

Hamed Sadeghi, Department of Electrical and Computer Engineering, Tarbiat Modares University, Tehran, Iran Paeiz Azmi

A4C.5 The Performance Evaluation of Fountain Codes with Feedback in Cooperative Systems *** &***

Maryam Fazeli, Electrical and Computer Engineering School,

Shiraz University Azizollah Jamshidi

Machine Vision II

Place: Room D

Chairs: Hamid Reza Pourreza, Ferdowsi University of Mashhad

Amir Taherinia, Ferdowsi University of Mashhad

A4D.1 Image Noise Reduction by Low Complexity Hardware Median Filter ***

Hossein Zamani Hossein Abadi, Department of Electrical and Computer Engineering Isfahan University of Technology Isfahan,

Iran

Shadrokh Samavi, Nader Karimi

A4D.3 3D Face Reconstruction Using Modified Shadow Moiré "&, %

Ali Jamali Avilaq, Electrical Department, AmirKabir University

of Technology

Amir Hossein Rezaie

A4D.4 Document Image Dewarping using Kinect Depth Sensor "&, *

Amir Reza Ghods, Electrical and Computer Engineering Department, Semnan University, Semnan, Iran Saeed Mozaffari, Farhad Ahmadpanahi

A4D.5 Robust Pedestrian Detection Using Low Level and High Level Features *** &

Fariba Takarli, Faculty of Electrical and Computer Engineering,

University of Tabriz, Tabriz, Iran

Ali Aghagolzadeh, Faculty of Electrical and Computer

Engineering, Babol University of Technology

Hadi Seyedarabi, Faculty of Electrical and Computer Engineering, University of Tabriz, Tabriz, Iran

Biomedical Signal Processing I

Place: Room E

Chairs: Hossein Esteky, Univ. of Shaheed Beheshti Medical Sciences

Sahar Moghimi, Ferdowsi University of Mashhad

A4E.1 Differentiation between Migraine without Aura and

Chronic Tension-type Headache Based on HOS

Analysis of sEMG Signals ** & ,

Fariba Biyouki, Dept. of Biomedical Engineering, Mashhad

Branch, Islamic Azad University, Iran

Saeed Rahati, Katri Laimi, Reza Boostani, Ali Shoeibi

A4E.3 A single channel-single trial P300 detection algorithm " \$(

Neda Haghighatpanah, Digital signal processing research lab, department of Elec. & Comp. Eng. Isfahan University of

technology Isfahan, Iran

Rassoul Amirfattahi

Vahid Abootalebi, Elec. & Comp. Eng. Department, Yazd

University, Yazd, Iran

Behzad Nazari, Digital signal processing research lab, department of Elec. & Comp. Eng. Isfahan University of

technology Isfahan, Iran

Power Systems Study I

Place: Room F

Chairs: Pedjman Pourmohamadiyan, Ferdowsi University of Mashhad

Ali Peiravi, Ferdowsi University of Mashhad

A4F.1 Generation and Transmission Expansion Planning With Considering Natural Gas Network" \$-

Fatemeh Barati, Iran University of Science and Technology

Abolfazl Nateghi, TarbiatModarres University

Hossein Seifi

Mohammad SadeghSepasian, Power and Water University of

Technology

A4F.5 PMU-Based Linear and Nonlinear Black-Box Modelling of Power Systems "' %

B. Zaker, Electrical Engineering Department, Amirkabir University of Technology

G. B. Gharehpetian, *Iran Grid Secure Operation Research Institute, Amirkabir University of Technology, Tehran, Iran* M. Mirsalim, *Electrical Engineering Department, Amirkabir*

University of Technology

N. Moaddabi

Power Electronics and Drives I

Room: Room G

Chairs: Javad Shokrollahi, Amirkabir University of Technology

Hossein Abootorabi Zarchi, Ferdowsi University of Mashhad

A4G.2 Design and Construction of a New SRM Sensorless

Driver"' &&

M.Rafiee, Young Researchers Club, West Tehran Branch, Islamic

Azad University, Tehran, IRAN

E.Afjei, Department of Electrical Eng., Faculty of Electrical & Computer Eng., Shahid Beheshti University G.C., Tehran, IRAN

A.Siadatan

A4G.5 Torque Ripple Minimization of Switched Reluctance Motor Using Modified Torque Sharing Function ** &+

MiladDowlatshahi, Electrical and Computer Engineering

Department, Isfahan University of Technology(IUT), Isfahan, Iran

SeyedMorteza SaghaeianNejad

Jin-Who Ahn, Department of Mechatronics Engineering,

Kyungsung University, Busan, Korea

Photocells and Sensors

Room: Room H

Chair: Ebrahim Hosseini, Ferdowsi University of Mashhad

A4H.2 Design of High Performance CdS/CdTe Solar Cells by Optimization of Step Doping and Thickness of the CdTe

Absorption Layef "'''

Saeed Khosroabadi, Department of Electrical Engineering, Ferdowsi University of Mashhad, Mashhad, Iran

Seyyed-Hossein Keshmiri

A4H.3 CMOS Magnetic Sensor with MAGFET"' '+

Nasrin Rezaei, Department of Electrical and Computer Engineering, Isfahan University of Technology, Isfahan, Iran Rasoul Dehghani, Armin Jalili, Ali Mosahebfard

A4H.4 Specific Fast Response CH4 Gas Sensor Based on Metal Oxide, Tungsten Carbide /SnO2 Core-Shell

Modified Interdigitated Electrode ''' (&

S. Nikmanesh, School of Electrical and Computer engineering, Shiraz University, Iran

M. H. Sheikhi, A. Zarifkar

M. M. Doroodmand, Department of Chemistry, College of

Sciences, Shiraz University, Iran

A. Zahabi, Department of Electrical engineering, Islamic Azad University, Bushehr Branch, Iran

Robust Control I

Room: Room J

Chairs: Rajab Asgharian, Ferdowsi University of Mashhad

Nasser Pariz, Ferdowsi University of Mashhad

Invited Talk System of Systems "B#5

Rajab Asgharian, Ferdowsi University of Mashhad

A4J.1 A New Approach for Designing Robust Adaptive Fuzzy Sliding Mode Controller"' (-

S. Barghandan, Department of Electrical Engineering, Science and Research Branch, Islamic Azad University, Tehran, Iran M.A. Badamchizade, Faculty of Electrical and Computer Engineering, University of Tabriz, Tabriz, Iran

A4J.2 **Sliding Mode Control of Switch Reluctance Motor** without Chattering"'))

Ali Karami-Mollaee, Department of Electrical and Robotic Engineering, Shahrood University of Technology Shahrood, Iran

A4J.4 Robust fault detection via unknown input observer

based on cubature Kalman filter" *\$

Jafar Zarei, Faculty of Electrical and Electronics Engineering, Shiraz University of Technology Ehsan Shokri

A4J.5 An optimal sliding mode control based on immunewavelet algorithm for underwater robotic manipulator "' **

Hossein Nejatbakhsh Esfahani, The Center of Excellence for Mechatronics, School of Engineering Emerging Technologies,

University of Tabriz, Tabriz, Iran

Vahid Azinmirad, Ali Eslami, Saeid Asadi

Fields and Waves (Antennas)

Room: Room K

Chairs: Rashid Mirzavand, Amirkabir University of Technology

Mohammad Hassan Neshati, Ferdowsi University of Mashhad

A4K.1 A Novel Miniaturized Multilayer E-shaped Patch

Antenna Using Giuseppe Peano Fractal Geometry on its

Edges for WLAN Dual-Band Applications "' +&

Homayoon Oraizi, Department of Electrical Engineering, Iran

University of Science and Technology, Tehran, Iran

Mojtaba Bahramgiri, Shahram Hedayati

A4K.2 Effect of Parasitic Elements on Spherical Probe-Fed

Antennas''' +*

Javad Soleiman Meiguni, Faculty of Electrical and Computer

Engineering, K. N. Toosi University of Technology

Manoochehr Kamyab, Ahmad Hosseinbeig

A4K.3 Gain Enhancement of Waveguide Slot Antennas Using

Quasi-TEM Mode in Rectangular Waveguide ", \$

Sajjad Mohammadian, Tarbiat Modares University

Keyvan Forooraghi, Zahra Atlasbaf

Image Processing and Recognition II

Room: Room A

Chairs: Rasoul Amirfattahi, Isfahan University of Technology

Farokh Torkaman Azar, Shaid Beheshti University

Invited Talk Mohammad Hassan Ghasemian, Tarbiat Modares University

B1A.2 Remote Sensing Image Fusion Using Improved ATW-

PCA Transform ''' , (

Morteza Ghahremani, Faculty of Electrical and Computer Engineering, Tarbiat Modares University Tehran, Iran

Hassan Ghassemian

B1A.3 A Noise-Robust SVD-MLBased Classification Method

for Multi-Spectral Remote Sensing Images" - \$

Amin Zehtabian, Department of Electrical and Computer Engineering, Tarbiat Modares University, Tehran, Iran

Hassan Ghassemian

B1A.4 Outdoor Fire Detection Based on Color and Motion

Characteristics"' - *

Maedeh Jamali, *Department of Electrical and Computer Engineering, Isfahan University of Technology, Isfahan, Iran* Shadrokh Samavi, Mansour Nejati, Behzad Mirmahboub

Signal Processing I

Room: Room B

Chairs: Hamadreza Amindavar, Amirkabir University of Technology

Saeid Mashhadi, Sharif University of Technology

B1B.5 An Energy-Efficient SD-based LZW Algorithm in

Dynamic Wireless Sensor Networks" (\$%

Hamidreza Asgarizadeh, Department of Electrical and Computer

Engineering, Yazd University, Yazd, Iran

Jamshid Abouei

Information and Communication Security I

Room: Room C

Chairs: Mahmoud Salmasizadeh, Sharif University of Technology

Abbas Ghaemi, Ferdowsi University of Mashhad

B1C.1 An Efficient Quantum Secret Sharing using Secure

Direct Communication "(\$+

Mahsa Khorrampanah, Electrical Engineering Department, Imam

Reza International University, Mashhad, Iran

MonirehHoushmand

B1C.2 An Attack on a Dynamic Multi-Secret Sharing Scheme

And Enhancing Its Security" (%

M.H. Tadayon, Cyber Space Research Institute

H. Khanmohammadi, Mathematical Science Dep., Tarbiat

Modares University

S. Arabi

B1C.5 Security Framework for Designing SIP Scannef "(%

Mitra Alidoosti, School of Computer Engineering, Iran University

of Science and Technology, Tehran, Iran

Hassan Asgharian, Ahmad Akbari

Radar and Sonar II

Room E Room: **Chairs:** Mahmoud Modarres Hashemi, Isfahan University of Technology Hossein Khoshbin, Ferdowsi University of Mashhad **B1E.3** Direct Data Domain (D3) Approach for Space-Time Adaptive Processing in Colocated MIMO Radar "(&& Moein Ahmadi, K.N. Toosi University of Technology Kamal Mohamedpour, Fatemeh Keshvari **B1E.4** A New Approach for Sea Target Detection in Satellite Based Passive Radar" (&* Marziye Golabi, Electronics and communications department, Shiraz University Shiraz, Iran Abbas Sheikhi, Mehrzad Biguesh **B1E.5** Implementation of Sequential Algorithm in Batch Processing for Clutter and Direct Signal Cancellation in Passive Bistatic Radars "('% Farzad Ansari, Department of Electrical and Computer Engineering Yazd University Mohammad Reza Taban

Power Electronics and Drives

Room: Room F

Chairs: Hossein Abootorabi Zarchi, Ferdowsi University of Mashhad

Mohammad Monfared, Ferdowsi University of Mashhad

B1F.2 Application of Trans Z-source Inverter in Photovoltaic

Systems"('+

Mehran MoslehiBajestan

Mahdi Shahparasti, Davood Arab Khaburi

B1F.4 Selective Harmonic Mitigation PWAM Control Strategy for Three-Phase Four-Leg Voltage Source Inverters "(('

AmeneZabihian, Dept. Of Computer and Electrical Engineering,

Tarbiat Modares University

Ali YazdianVarjani

HodaGhoreishy, Babol Noshirvani University of Technology

Electrical Machines and Transformers I

Room: Room G

Chairs: Abolfazl Vahedi, Iran University of Science and Technology
Jafar Ebadi, Ferdowsi University of Mashhad

B1G.1 Axial Flux Permanent Magnet Motor Modeling using
Magnetic Equivalent Circuit''((,
Karim Abbaszadeh, Electrical and Computer Engineering Dep.
K.N. Toosi University of Technology, Tehran, Iran
Seyede Sara Maroufian

B1G.6 Reduction of Vibration and Acoustic Noise in the

B1G.6 Reduction of Vibration and Acoustic Noise in the Switched Reluctance Motor by Using New Improved Stator yoke shape "()(

Kamran Masoudi, *University of Tabriz, Iran* Mohammad Reza Feyzi, Amir Masoudi

Modeling of Semiconductor Devices

Room: Room H **Chairs:** Mojtaba Joodaki, Ferdowsi University of Mashhad Ebrahim Hosseini, Ferdowsi University of Mashhad **Effect of Stone-Wales Defects on Electronic Properties B1H.4** of Armchair Graphene Nanoribbons"(), Mohsen Samadi, Department of Electrical Engineering, Sharif University of Technology, Tehran, Iran Rahim Faez **B1H.5** Spin Effect on Band Structure of Zigzag and Armchair Graphene Nanoribbones with Stone-Wales defect "(*& R. Faez, Sharif University of Technology S. Barami **B1H.6 Analysis and Optimization of Tunnel FET with Band Gap** Engineering"(** M. R.Salehi, Shiraz university of technology E.Abiri, B.Dorostkar S. E. Hosseini, Ferdowsi university of Mashhad

Robotic and Automation II

Room: Room J

Chairs: Heydar Toosian Shandiz, Shahrood University
Hamed Molla Ahmadian, Khorasan Institute of Higher Education

B1J.2 Adaptive Task-Space Control of Rigid-Link Robots with Uncertain Kinematics and Dynamics and without

Acceleration Measurements (+\$

Mahboubeh Ahmadipour, Department of Power and Control Engineering, Shiraz University

Alireza Khayatian, Maryam Dehghani

B1J.4 Design of Mechanical Structure and Tracking Control System for 5 DOF Surgical Robot "(+)

S.M.Sajadi, School of Engineering-Emerging Technologies, University of Tabriz, Tabriz, Iran S.H.Mahdioun, A.A.Ghavifekr

B1J.6 LTV-MPC Based Path Planning of an Autonomous Vehicle Via Convex Optimization (, %

Mohsen Ahmadi Mousavi, Faculty of New Sciences and Technologies, University of Tehran Zainabolhoda Heshmati

Behzad Moshiri, Faculty of Electrical and Computer Engineering, University of Tehran

Nonlinear Systems and Chaos I

Room: Room K

Chairs: Mohammad Reza Jahed, Iran University of Science and Technology

Mohammad B. Naghibi Sistani, Ferdowsi University of Mashhad

B1K.1 Robust Impulsive Synchronization of Lorenz Chaotic Dynamical System with Capability of Unknown Bounded Disturbance Rejection (,,

Monireh Mirnezami, Faculty of Graduate Studies, Department of Electrical Engineering, South of Tehran Branch, Islamic Azad University, Tehran, Iran

Hamid Khaloozadeh, Industrial Control Center of Excellence,

K.N. Toosi University of Technology, Tehran, Iran

B1K.3 Synchronization of Chaotic Systems with Unknown Time Delay by Sliding Mode Observer Approach and Unknown Delay Identification (-'

ShirinBeheshti, Islamic Azad University, South Tehran Branch, Iran

Hamid Khaloozadeh, *Industrial Control Center of Excellence*, K.N. Toosi University of Technology, Tehran, Iran

B1K.4 Synchronization of uncertain chaotic systems based on optimal and variable structure control (--

Armin Iromloozadeh, Department of Control Engineering, Islamic Azad University, Meymeh Branch Isfahan, Iran

M. Ataei, Department of Electrical Engineering, Faculty of

Engineering, University of Isfahan, Isfahan, Iran

F. Khalili, Department of Electrical Engineering, Naghshe jahan

University, Baharestan, Iran

B1K.5 Identification and Adaptive Position Control of Two Mass Systems with Unknown Backlash") \$'

Mirhamed Mola, School of Electrical and Computer Engineering,

Shiraz University

Alireza Khayatian, Maryam Dehghani

B1K.6 Robust Observer-based Controller Design for T-S Systems with Nonlinear Consequent Parts ") \$-

Hoda Moodi, Department of Electrical Engineering, Iran University of Science and Technology, Tehran, Iran Mohammad Farrokhi

Poster Session (Electronic Engineering and Control Engineering)

Place: Room P

B1P.01 Adaptive Control of Wheeled Inverted Pendulum Mobile

Robot using Fuzzy Disturbance Observer ") %

AmirkhosroVosughi, Electrical Engineering Department, Iran University of Science & Technology

Alireza Mohammad Shahri

B1P.03 Adaptive Stochastic Sliding Mode Ship Autopilot for Way-Point Tracking ***) &%

M. Asadi, School of Electrical & Computer engineering, Shahrood University of Technology Shahrood, Iran H. GholizadeNarm

B1P.04 Design of Reliable Adaptive Controller for Uncertain Linear Systems with H=bZ|b]tmPerformance → 8+

AnahitaGhasemi, Departement of Electrical Engineering ,Mashhad branch,Islamic Azad University,Mashhad,Iran Saeed Toosizadeh, Rajab Asgharianghanadyazdi Ali Abootalebi, Departement of Electrical

Engineering, Naghshejahan Institute of Higher Education, Isfahan Mohamad Mesbah, Departement of Electrical Engineering , Behbahan branch, Islamic Azad University, Behbahan, Iran

B1P.06 Optimum Synthesis of Sensory Layout in Active Suspensionbased on Linear Observer")')

Ali Reza Ramezaney, Electrical Department University of Science and Technology Tehran, Iran

M., EhsanFathi

S. M. Mehdi Ansarey M, Vehicle Dynamics & Homologation ITRAC Co (SAPCO Test Centre) Tehran, Iran

B1P.10 Network-Based Robust H˙±bZjb]lmStabilization of Uncertain Systems ˙˙˙) (%

Arash Farnam, Electrical Engineering Department Sahand, University of Technology Tabriz, Iran Reza Mahboobi Esfanjani

Poster Session (Computer Engineering and Biomedical Engineering)

Place: Room Q

B1Q.04 Three Camera-Based Human Tracking Using weighted Color and Cellular LBP histograms in a Particle Filter Framework () (+

S. Rahimi, Faculty of Electrical and Computer Engineering, University of Tabriz, Tabriz, Iran

A. Aghagolzadeh, H. Seyedarabi

B1Q.08 New Approach for Human Detection in Images Using Histograms of Oriented Gradients"))'

Narges Ghaedi Bardeh, *Isfahan University of Technology* Maziar Palhang

B1Q.10 Point Cloud Registration Using Maximally Stable Shape Index Regions) +

MohammadMahdi Manafzade, Ferdowsi University of Mashhad, Mashhad, Iran Ahad Harati

B1Q.12 YAPPTCHA: Yet Another Picture Promoted CAPTCHA with Spam Stopping, Image Labeling and SIFT Accomplishment ***) * '

M. Babaei, *Tehran University*M.B. Ghaznavi Ghoushchi, *Shahed University*A. Noori, *Qazvin Islamic Azad University*

B1Q.14 ECG Power line Interference Removal Using Combination of FFT and Adaptive Non-linear Noise Estimator + %

Fatemeh Shirbani, School of Electrical and computer Eng., College of Engineering, University of Tehran, Tehran, Iran Seyed Kamaledin Setarehdan, Control and Intelligent Processing Center of Excellence, School of Electrical and Computer Eng., College of Engineering, University of Tehran, Tehran, Iran.

Poster Session (Communications)

Room: Room R

A New Colour Image Watermarking Scheme Using Cellular Automata Transform and Schur Decomposition **) +* B1R.05

Nazila Panahi, Urmia University, Urmia, Iran Mehdi Amirani, Sohrab Behnia, Peyman Ayubi

Poster Session (Power Engineering)

Room: Room S B1S.04 Design, Analysis and Controlling of a Novel 4 by 4 Multilayer SRA "), % A.Siadatan, Department of Electrical Engineering, West Tehran Branch, Islamic Azad University, Tehran, IRAN M.Rafiee, Young Researchers Club, West Tehran Branch, Islamic Azad University, Tehran, IRAN E.Afjei, Department of Electrical Eng., Faculty of Electrical & Computer Eng., Shahid Beheshti University G.C., Tehran, IRAN B1S.05 A Novel Brushless Synchro: Operation Principle and Experimental Resultg"), * Davood Pazouki, Iran University of Science and Technology, Tehran, Iran Mahdi Ghafarzadeh, Rezvan Abedini, Aliakbar Damaki Aliabad, Ali Kamali B1S.06 Sensitive Analysis between Different Types of One Layer Switched Reluctance Motor") - & R. Moeini, Department of Electrical Engineering, West Tehran Branch, Islamic Azad University, Tehran, IRAN E.Afjei, A.Siadatan B1S.08 PM Demagnetization Detection in Axial Flux Permanent Magnet Motor using ARX Model") - , A Karim Abbaszadeh, Electrical and Computer Engineering Dept.K.N. Toosi University of Technology, Tehran, Iran Seyede Sara Maroufian B1S.16 Design of the Forced Water Cooling System for a Claw **Pole Transverse Flux Permanent Magnet Synchronous** Motor ** \$' Ahmad Darabi, Faculty of Electrical and Robotic Engineering, Shahrood University of Technology, Shahrood, Iran Ali Sarreshtehdari, Faculty of Mechanical Engineering Shahrood University of Technology, Shahrood, Iran Hamed Tahanian, Faculty of Electrical and Robotic Engineering, Shahrood University of Technology, Shahrood, Iran B1S.17 **Exact Determination of a Winding Disk Radial** Deformation Location Considering Tank Effect Using an

Analytical Method *** \$,

H. RahbariMagham, Electrical Engineering Department, Amirkabir University of Technology, Tehran, Iran

M.A. Hejazi, H. Karami Porzani, M.S. Naderi, G.B. Gharehpetian

Image Processing and Recognition III

Room: Room A **Chairs:** Hassan Aghaeinia, Amirkabir University of Technology Alireza Seyedin, Ferdowsi University of Mashhad **B2A.3** A New Robust Semi-Blind Digital Image Watermarking Approach Based on LWT-SVD and Fractal images *** % Kayvan Ghaderi, Department of Computer Engineering,

University of Kurdistan

Fardin. Akhlaghian, Parham Moradi

B2A.4 Robust Image Watermarking In 3-D Space Using

Wavelet Coefficients ** %

Mohammad Hamghalam, Department of Electrical Engineering, *Iran University of Science and Technology (IUST)* Sattar Mirzakouchaki, Mohammad Ali Akhaee

B2A.6 A Novel Approach of Secure Image Based Steganography by Using Eigenvalue and Eigenvector

Principles *** &(

Seyed Abbas Hosseini-pour, Shahid Bahonar University of

Mohadeseh Soleimanpour, Hussein Nezam-abadi

Wireless Communications II

Room: Room B

Chairs: Mohammad Javad Omidi, Isfahan University of Technology

Babak Khalaj, Sharif University of Technology

Invited Talk Masoumeh Nasiri, Sharif University of Technology

B2B.1 A Random Matrix Approach to Wide Band Spectrum

Sensing: Unknown Noise Variance Case *** &

Sajjad Imani, ECE. Dept., University of Tehran, Tehran, Iran Amin Banitalebi-Dehkordi, ECE. Dept., University of British

Columbia, Vancouver, BC, Canada

Mehdi Cheraghi, ECE. Dept., Shahed University, Tehran, Iran

B2B.2 Joint Power and Subcarrier Allocation in OFDMA-Based

Cooperative Cognitive Networks "*' (

Yoones Hashemi, Department of Electrical and Computer Engineering University of Tehran, Tehran, Iran

Ali Olfat

B2B.3 Likelihood-Ratio-Based Cooperative Spectrum
Sensing for Autocorrelation-Assisted Detection of

OFDM Signals in Cognitive Radio *** (\$

Hamid Arezumand, Department of Electrical and Computer Engineering, Tarbiat Modares University, Tehran, Iran

Paeiz Azmi, Hamed Sadeghi

Field and Waves II (Microwaves)

	· · · · · · · · · · · · · · · · · · ·
Room	Room C
Chairs	Abdolali Abdipour, Amirkabir University of Technology Mehrdad Shokooh-Saremi, Ferdowsi University of Mashhad
Invited Talk	Terahertz Technology "B#5 Mahmoud Shahabadi, University of Tehran
B2C.1	Fully Distributed Analysis of an Improved Single Pole Single Throw Traveling Wave Switches*** ((Hamed Khoshniyat, Electrical Engineering Department, Amirkabir University of Technology, Tehran, Iran GholamrezaMoradi, Abdolali Abdipour Kambiz Afrooz, Electrical Engineering Department, Shahid Bahonar University of Kerman, Iran
B2C.2	A Novel Composite Left-Right Handed Structure for Rectangular Waveguide with Its Multi Bandstop and Bandpass Applications "* (, S. Saravi, School of Photonics, Friedrich-Schiller-Universität Jena, Germany S. A. Hassani Gnagaraj, Department of Electrical Engineering, Iran University of Science and Technology, Tehran M. Tayarani
B2C.3	Design of a Novel Dual Mode Filter Based on HMSIW Structure Using Mode Shifting Technique ***)'

Morteza Rezaee, Electrical Engineering Department

Ferdowsi University, Mashhad, Iran

Amir Reza Attari

Artificial Intelligence II

Room: Room D

Chairs: Mahmood Amintoosi, Hakim Sabzevari University

Mohammad-R. Akbarzadeh-T., Ferdowsi University of Mashhad

B2D.2 N-gram Adaptation UsingDirichlet Class Language

Model Based on Part-of-Speech for Speech Recognition***), Ali Hatami, Computer Engineering Department, Iran University

of Science and Technology, Tehran, Iran

Ahmad Akbari, Computer Engineering Department, Iran University of Science and Technology, Tehran, Iran Babak Nasersharif, Electrical and Computer Engineering Department, K. N. Toosi University of Technology, Tehran, Iran

B2D.4 Motion Planning of a Spherical Robot Using eXtended Classifier Systems *** '

M. J. Esfandyari, School of Mechanical Engineering, University of Tehran, Tehran, Iran

M. Roozegar, Center for Mechatronics and Automation, School of Mechanical Engineering, University of Tehran Tehran, Iran M. Shariat Panahi, School of Mechanical Engineering, University of Tehran, Tehran, Iran

M. Mahjoob, Center for Mechatronics and Automation, School of Mechanical Engineering, University of Tehran Tehran, Iran

Biomedical Signal Processing II

Room: Room E

Chairs: Ali Motie Nasrabadi, Shahed University

Mohammad Ali Khalilzadeh, Islamic Azad University of Mashhad

B2E.3 Automated Spectral Analysis for Pediatric Cardiac

Auscultation *** -

Azra Rasouli Kenari, Faculty of Electrical and Computer Engineering, Tarbiat Modares University, Tehran, Iran

Dr. M. Hassan Ghassemian

B2E.5 How Health Related to Quality of Sleep and Breathing:

How to Associate Sleep Disorder Breathing and

Extracted Respiratory Signal *** +(

Sepideh Tork, Department of Biomedical Engineering, University

of Isfahan, Isfahan, IR. Iran

MohammadReza Yazdchi, Arezoo Karimizadeh

B2E.6 Hierarchical Region Based ML EEG Source

Reconstruction: A Subspace Projection Approach ***, \$

Foroogh Fathnia, Electrical Engineering Department, Ferdowsi

University of Mashhad Hossein Zamiri-Jafarian

Distributed Generation II

Room: Room F Chairs: Mohammad Taghi Bathaee, K. N. Toosi University of Technology Alireza Fereidunian, , K. N. Toosi University of Technolog **B2F.3** Nonlinear Control of a Satellite Power System Based on the Sliding Mode Control ***, (Mohammad Rasool Mojallizadeh, Department of Electrical Engineering Islamic Azad University, Najafabad Branch Najafabad, Isfahan, Iran Bahram Karimi, Department of Electrical Engineering Malek-Ashtar University of Technology Shahinshahr, Isfahan, Iran Wind Turbine Power Tracking Using Multiple Model **B2F.4** Predictive Control ** - \$ Salehe Afsharian, Department of Electrical Engineering, Ferdowsi University of Mashhad Ali Karimpour **B2F.5 Optimization-based Home Energy Management in the** Presence of Solar Energy and Storage ** - * Sattar Mohammadi, Electrical Engineering Department, Sharif University of Technology Mahmoud Momtazpour, Esmaeil Sanaei **B2F.6 Optimal Placement of Switching Devices in Distribution Networks Using Multi-objective Genetic Algorithm** NSGAII"+\$& Mohammad Reza Mazidi, Tehran University

Mohsen Aghazadeh, Iran University of Science and Technology Yousef Ahmadi Teshnizi, Islamic Azad University of Shahrekord

Erfan Mohagheghi, University of Greenwich

Power System Study II

Room G

Chairs: Maryam Dehghani, Shiraz University
Habib Rajabi-Mashhadi, Ferdowsi University of Mashhad

B2G.1 A Way to Evaluate Segmentation: An Examination of AC Line Elimination in a Parallel AC/DC Transmission

Systea "+\$,

Reza Gholizadeh Roshanagh, Department of Electrical Engineering Azarbaijan Shahid Madani University, Tabriz, Iran

Sajad Najafi Ravadanegh

Analog Techniques

Room: Room H Chairs: Mehdi Fakhraie, University of Tehran Mohammad Maymandi-Nejad, Ferdowsi University of Mashhad B2H.1 A Current-Mode Membership Function Generator With **Continuous Slop Tunability and Low Power** Consumption +% Naser Beyraghi, Microelectronic Research Laboratory, University of Urmia Urmia,Iran Abdollah Khoei, Khayrollah Hadidi **B2H.2** A Modified Structure for High-Speed and Low-**Overshoot Comparator-Based Switched-Capacitor** Integratof "+% Ali Roozbehani, VLSI Lab, Shahid Beheshti University, G.C., Tehran, Iran Omid Hashemipour **B2H.3** Optimization of Inference Engine in CMOS Analog Fuzzy Logic Controllers "+& Mahmoud Mahdipour Pirbazari, Microelectronics Research Laboratory, Urmia University, Urmia, Iran Abdollah Khoei, Khayrollah Hadidi **B2H.4** Wide-Range Programmable Duty Cycle Corrector (DCC) +&-Hadiseh Babazadeh, Microelectronic Research Laboratory Urmia University Arash Esmaili, Khayrollah Hadidi, Abdollah Khoei **B2H.5** Hardware Implementation of Interval Type-2 Fuzzy Logic Controller"+' (Alireza Mesri, Microelectronics Research Laboratory, Urmia University, Urmia, Iran Abdollah Khoei, Khayrollah Hadidi A Modified Adaptive Exponential Integrate and Fire **B2H.6** neuron Model for Circuit Implementation of Spiking Neural Networks + (\$ ## Shaghayegh Gomar, Faculty of Engineering, Razi University, Kermanshah, Iran Arash Ahmadi, Elahe Eskandari **B2H.7** A Novel CMOS Image Sensor for High Speed Parallel Integral Image Computation "+() Yusof Doost Hoseini, Department of Electrical and Computer Engineering, Isfahan University of Technology, Isfahan, Iran Sayed Masoud Sayedi, Saeid Sadri

Soft Computing and Intelligent Control I

Room: Room J

Chairs: Behzad Moshiri, University of Tehran

Ali Vahidian, Ferdowsi University of Mashhad

Invited Talk Behzad Moshiri, University of Tehran

B2J.1 Type-2 Fuzzy Neural Network Controller for a class of

Nonlinear Systems "+) %

Hossein Moradi Farahani, Department of Electrical and Computer

Engineering Isfahan University of Technology (IUT) Javad Askari, MaryamZekri, Marzieh Kamali

B2J.2 Designing Interval Type-2 Fuzzy Controllers bySarsa

Learning + +

Nooshin Nasri Mohajeri, Ferdowsi University of Mashhad,

Mashhad, Iran

Mohammad Bagher Naghibi Sistani

MEMSI

Room: Room K

Chairs: Khalil Mafinejad, Ferdowsi University of Mashhad

Hossein Keshmiri, Ferdowsi University of Mashhad

B2K.4 Design and Simulation of High Isolation RF MEMS

Shunt Capacitor Switch for C-K Band "+* '

Yasser Mafinejad, School of Engineering, Deakin University,

Geelong, Australia Abbas Z. Kouzani

Majid Zarghami, MEMS and RF MEMS Research Group, School of Electrical and Computer Engineering, Sadjad Institute of

Higher Education, Mashhad, Iran

B2K.5 A Novel Design of MEMS Gyroscope with Control Capability ** +*,

Zeinab Yousefi, Faculty of Electrical Engineering, Sahand

University of Technology, Tabriz, Iran

Zahra Deyhim

Esmail Najafi Aghdam, Faculty of Electrical Engineering, Sahand

University of Technology, Tabriz, Iran

Habib Badri Ghavifekr

Wireless Communications III

Room: Room A

Chairs: Vahid Tabataba Vakili, Iran University of Science and Technology

Ghosheh Abed Hodtani, Ferdowsi University of Mashhad

B3A.2 An Enhanced MMSE based Pre-processing Scheme for Time Reversal MIMO-UWB Systems in an Imperfect CS=¨B#5

Sajjad Alizadeh, Electrical and Electronic Engineering University Complex (EEEUC) Malek Ashtar University of Technology (MUT)

Tehran, Iran

Hossein Khaleghi Bizaki

B3A.3 Compressed Receiver for Ultra-Wideband Communication ++&

Abbas Akbarpour-Kasgari, School of Electrical and Computer

Engineering, University of Tehran, Tehran, Iran

Said Nader Esfahani

B3A.5 Joint Multiuser And Inter-symbol Interference Suppression In CDMA Systems Using Particle Swarm

Optimization Algorithms +++

Atefeh Haji Jamali Arani, Tarbiat Modares University, Tehran,

Iran

Paeiz Azmi

Photonics and Optoelectronics I

Room: Room B

Chairs: Mahmoud Shahabadi, University of Tehran

Mehrdad Shokooh Saremi, Ferdowsi University of Mashhad

B3B.1 Performance considerations of a photonic crystal

based on graphene multilayer system"+, 'Zahra Arefinia, Research Institute for Applied Physics and

Astronomy, Tabriz University

Asghar Asgari, Research Institute for Applied Physics and Astronomy, Tabriz University, School of Electrical, Electronic and

Astronomy, Tabitz University, School of Electrical, Electronic and Computer Engineering, The University of Western Australia,

Crawley, Australia

Field and Waves II (Antennas)

Room: Room C

Chairs: Mahmoud Kamarei, University of Tehran

Homayoon Oraizi, Iran University of Science and Technology

B3C.2 A Compact Directional Super-wideband AntennU"+, +

Hossein Mehrpour Bernety, Babol Noshirvani University of

Technology

Bijan Zakeri, Reza Gholami

B3C.3 SIW Cavity-Backed Slot Antennas with Improved Gain "+- %

Hamideh Dashti, Electrical Department, Ferdowsi University of

Mashhad, Mashhad, Iran

Mahmoud Shahabadi, School of ECE, College of Eng. University

of Tehran, Tehran, Iran

Mohammad H. Neshati, Electrical Department Ferdowsi

University of Mashhad, Mashhad, Iran

B3C.4 Compact, Dualband T-Junction Zeroth-Order Resonant

Antenna With Extended Bandwidth "B#5

Navid Amani, Faculty of Electrical and Computer Engineering K.

N. Toosi University of Technology Manouchehr Kamyab, Amir Jafargholi

Algorithms and Data Processing

Room: Room D

Chairs: Saied Abrishami, Ferdowsi University of Mashhad

Hadi Sadoughi Yazdi, Ferdowsi University of Mashhad

B3D.1 Applying Read-Only Optimization in Commit Processing

of Pure Main Memory Database Systems"+-)

Sadegh Firoozandeh, Pooya Co.Inc, Tehran, Iran

B3D.5 Sentiment Classification in Persian: Introducing a

Mutual Information-based Method for Feature Selection", \$&

Ayoub Bagheri, Intelligent Database, Data Mining and Bioinformatics Lab, Electrical and Computer Engineering Department, Isfahan University of Technology, Isfahan, Iran Mohamad Saraee, School of Computing, Science and Engineering,

University of Salford, Manchester, UK

Franciska de Jong, University of Twente, Human Media

Interaction, The Netherlands.

Speech Processing II

Room: Room E

Chairs: Hamid Reza Abutalebi, Yazd University

Abbas Ebrahimi-Moghaddam, Ferdowsi University of Mashhad

B3E.2 Localization of Multiple Simultaneous Speakers by

Combining the Information from Different Subbands", \$,

Ali Dehghan Firoozabadi, Speech Processing Research Lab (SPRL), Electrical and Computer Eng. Dept., Yazd

University, Yazd, Iran Hamid Reza Abutalebi

B3E.3 Robust Voice Activity Detection Using Feature Combination***, %

Sahar Khaksar Haghani, Speech Processing Research Laboratory,

Electrical Engineering Department, Amirkabir University of

Technology, Tehran, Iran Seyed Mohammad Ahadi

B3E.4 Realtime Stereo Localization of a Moving Speaker Using

Filtered Spectrogram Correlation Map algorithm ", %

Azadeh Vakili Qahani, Department of Electrical Engineering,

K.N. Toosi University of Technology

Amir Mousavinia

Microgrid and Distribution Networks II

Room: Room F

Chairs: Mahmud Fotuhi Firuzabad, Sharif University of Technology

Mohammad Hossein Javidi, Ferdowsi University of Mashhad

Invited Talk Gevorg B. Gharehpetian, Amirkabir University of Technology

B3F.1 Optimal Directional Relay Placement in Microgrids Considering Coordination Constraintg^{***}, &)

Bahare Salehi, Department of Electrical and Computer Engineering Isfahan University of Technology

Mahdi Tadayon, Distribution NetworkDepartmentBehrad

Consulting Engineers

Hamid Reza Karshenas, Department of Electrical and ComputerEngineering Isfahan University of Technology

Restructured Power Systems I

Room: Room G

Chairs: Masoud Rashidinejad, Shahid Bahonar University or Kerman

Majid Oloomi, Ferdowsi University of Mashhad

B3G.2 Generating Unit Maintenance Scheduling in Power

Market Based on Fairness and Competition ", '%

Hessam Golmohamadi, Department of Electrical Engineering

The University of Birjand Maryam Ramezani

B3G.3 IGDT Based Risk-constrained Strategic Bidding of

GenCos Considering Bilateral Contracts", '+
Mostafa Kazemi, Department of Electrical Engineering Sharif

University of Technology

Behnam Mohammadi-Ivatloo, Faculty of Electrical and Computer

Engineering University of Tabriz

Mehdi Ehsan, Department of Electrical Engineering, Sharif

University of Technology

MEMS II

Room: Room H

Chairs: Khalil Mafinejad, Ferdowsi University of Mashhad
Hossein Keshmiri, Ferdowsi University of Mashhad

B3H.1 A New Method for Eliminating Cross Axis Sensitivity in

Two Axis Capacitive Micromachined Accelerometers ", ('Hadi Tavakoli, Microelectronics Research Laboratory, Urmia University

Ebrahim Abbaspour Sani

B3H.2 Study of a High Sensitivity Transverse Comb-Drive As Small Force Sensor''', (,

S. A. Ahmadi, Electrical and Computer Engineering, University of Sistan and Baluchestan Zahedan, Iran

T. Fanaei S., S. M. Barakati

System Identification

Room: Room J

Chairs: Maryam Dehghani, Shiraz University

Alireza Khayatian, Shiraz University

B3J.2 Nonlinear System Identification Based on a Novel Adaptive Fuzzy Wavelet Neural Network***,) '

Maryam Salimifard, School of Electrical Engineering, Amirkabir

University of Technology, Tehran, Iran

Ali Akbar Safavi, Department of Power and Control, School of Electrical and Computer Engineering, Shiraz University, Shiraz,

Iran

B3J.3 Detection of Natural Gas Pipeline Defects using Magnetic Flux Leakage Measurements",),

Mojtaba Rostami Kandroodi, Control and Intelligent Processing Center of Excellence, School of ECE, College of Engineering,

University of Tehran, Iran

Babak Nadjar Araabi, Majid Nili Ahmadabadi, Farshad Shirani Maisam Mansoob Bassiri, *Segal Pardazesh Engineering Co.*,

Tehran, Iran

B3J.4 Simultaneous Fault Detection and Control for Switched Linear Systems: An LMI Approach ", *(

Shahram Hajshirmohamadi, *Isfahan University of Technology* Javad Askari

Saeed Hoseinnia, Islamic Azad University, Najafabad Branch

VLSI

Room: Room K

Chairs: Mehdi Fakhraie, University of Tehran

Reza Lotfi, Ferdowsi University of Mashhad

B3K.1 Synthesis of Parallel Hierarchical Finite State Machines", +\$

 ${\it Valery~Sklyarov}, {\it Department~of~Electronics}, {\it Telecommunications}$

and Informatics/IEETA, University of Aveiro, Portugal

Iouliia Skliarova

B3K.3 A Waveform Soft Model Extraction Method to Track

Wire Behavior in Nano Scale Technologies", +,

Atefesadat Seyedolhosseini, Advanced VLSI Lab., School of ECE,

College of Eng., University of Tehran, Tehran, Iran

Nasser Masoumi

Poster Session (Electronic Engineering and **Control Engineering)**

B3P.01 A Model-Based Fuzzy Controller Using the Parallel **Distributed Compensation Method for Quadrotor**

Attitude Stabilization ", , &

Soroush Sheikhpour, Artificial Creature Lab, Electrical Engineering School, Sharif University of Technology, Tehran Iran

Saeed Bagheri Shouraki

Room P

Room:

B3P.03 An Adaptive Linear Neural Network for Identification of Oscillatory Damped Signals",,,

Z. Nouri-Sedeh, Dept. of Electrical and Computer Engineering Isfahan University of Technology, Isfahan, Iran M. Mojiri, M. Zekri

B3P.05 Optimization of Model Predictive ControllerParameters

Based on Imperialist Competitive Algorithm", - '

M.Abedi, Department of Electrical Engineering Mashhad Branch, Islamic Azad University Mashhad, Iran M.Yaghoobi

B3P.07 Constraint Control Allocation Using Differential

Evolution for Over-actuated Geostationary

Communications Satellite", -, Amirreza Kosari, University of Tehran

Samane Kaviri, Behzad Moshiri, Mahdi Fakoor

B3P.09 Modeling the Effect of Process Variations on the Delay and Power of the Digital Circuit Using Fast Simulators -- \$'

Amirali Amirsoleimani, Electrical Engineering Department, Razi University

H. Soleimani, A. Ahmadi

M. Bavandpour, Faculty of Electrical Engineering, Sharif

University of Technology, Tehran, Iran

M. Zwolinski, School of Electronic and Computer Science,

University of Southampton, Southampton, UK

B3P.10 A New Design Technique for Low Power Subthreshold

Logic Circuits with Enhanced Robustness Against

Process Variations "- \$-

Sareh Majidi, Ferdowsi university of Mashhad, Iran Mohammad Maymandi-nejad

B3P.14 Reliability Analysis of Logic Circuits Using Binary Probabilistic Transfer Matrix - %

Hamed Zandevakili, Department of Electrical Engineering, Shahid Bahonar University, Kerman, Iran Ali Mahani, Mohsen Saneei

Poster Session (Electronic Engineering and Control Engineering)

Room:	Room P
B3P.15	Design of high-Throughput QC-LDPC Decoder for WiMAX'GHUbXUfX''-%''' Tahere Heidari, Tarbiat Modares University Abumoslem Jannesari, Tarbiat Modares University
B3P.17	A New Frequency Comparator for Using in Fast Charge Pump PLLs"-&" Vahideh Sadat Sadeghi, Babol University of Technology, Babol Hossein Miar Naimi

Poster Session (Computer Engineering and Biomedical Engineering)

Room: Room Q

B3Q.01 Deployment of gLite Middleware: An E-Science Grid Infrastructure **-- &*

Mohmmad Hasanzadeh, Computer Engineering and Information Technology Department Amirkabir University of Technology (Tehran Polytechnic) Tehran, Iran Mohammad Reza Meybodi

B3Q.03 Overload control in Asterisk Proxy: implementation and Evaluation — ' &

Ahmadreza Montazerolghaem, Department of Computer Engineering Ferdowsi University of Mashhad, Mashhad, Iran Mohammad Hossien Yaghmaee moghaddam

B3Q.04 Improving Performance of SIP Signaling During Overload Using Capabilities of Connection-Oriented Transport Protocol ...,

Maryam Baghdadi, School of Computer Engineering, Iran University of Science and Technology, Tehran, Iran Seyed Vahid Azhari

B3Q.06 An Energy-Efficient Clustering Algorithm for Large Scale Wireless Sensor Networks**-- ((

Maryam Soleimani, Department of Electrical and Computer Engineering, Isfahan University of Technology, Iran Amirali Sharifian, Ali Fanian

B3Q.07 Replication based on Objects Iteration Frequency and Load Using a Genetic Algorithm under a Content Distribution Network**-)\$

Hamid Jabraili, Computer Department, Islamic Azad University, Shabestar Branch, Shabestar,Iran Saleh Yousefi, Behzad Boukani Meysam Bayani Rad, Computer Department, Urmia University,Urmia, Iran

B3Q.08 Robust and Energy Efficient Clock Synchronization Scheme for Wireless Sensor Networks"-)*

Maryam Sadat Rasouli Danesh, Faculity of Electrical and Computer Engineering K. N. Toosi university of technology Tehran, Iran

Abdorasoul Ghasemi

B3Q.10 Active Queue Management for Self-Similar Network Traffic *** ***

Farnaz Amin, *Electrical Engineering and computer science Department, Yazd University, Iran*Kiarash Mizanain, Ghasem Mirjalily

Poster Session (Computer Engineering and Biomedical Engineering)

Room: Room Q

B3Q.11 Power-aware QoS Routing for Wireless Multimedia Sensor Networks **- **

Babak Namazi, Department of Electrical Engineering, Amirkabir university of technology, Tehran, Iran Karim Faez

B3Q.14 Vector-Valued Image Segmentation using Region based active contour "B#5"

Zahra Shahvaran, *Shiraz University of Technology, Shiraz, Iran* Kamran Kazemi, Mohammad Sadegh Helfroush, Narjes Golshaeyan

B3Q.16 Symmetric brain atlas template for newborns brain asymmetry studies "-+%

Negar Noorizadeh, Shiraz University of Technology, Shiraz, Iran Kamran Kazemi, Department Shiraz University of Technology, Shiraz, Iran

Reinhard Grebe, UFR of Medicine, University of Picardie Jules Verne, France

Mohammad Sadegh Helfroush, Shiraz University of Technology, Shiraz, Iran

Mahdi Mahmoudzadeh, EFSN Pediatrique, CHU Amiens, France Narjes Golshaeyan, University of Applied Science and Technology, Helal Ahmar Shiraz, Iran Fabrice Wallois, EFSN Pediatrique, CHU Amiens, France

Poster Session (Communications)

Room: Room R

B3R.02 Face Recognition Using Global and Local Gabor Features --- +)

Sara Nazari, Faculty of Electrical and Computer Engineering Islamic Azad University, Qazvin Branch, Qazvin, Iran Mohammad-ShahramMoin

B3R.06 An Efficient Algorithm for Lip Detection in Color Face Images --+-

Behrooz Zali-Vargahan, *Department of Electrical Engineering*, *Urmia University*, *Urmia*, *Iran*Hashem Kalbkhani, Mahrokh G. Shayesteh

B3R.07 Robust Head Pose Estimation Using Contourlet Transform -, '

Mohammad Tofighi, *Department of Electrical Engineering*, *Urmia University*, *Urmia*, *Iran*Hashem Kalbkhani, Mahrokh G. Shayesteh, Mehdi Ghasemzadeh

Meysam R. Danaee, Department of Electrical Engineering, Sharif University of Technology, Tehran, Iran Fereidoon Behnia

B3R.10 Sector Beamforming with Uniform Circular Array Antennas Using Phase Mode Transformation -- -

Mohsen Askari, School of Electrical and Computer Engineering Shiraz University, Iran Mahmood Karimi

B3R.11 Auxiliary Unscented Particle Cardinalized Probability Hypothesis Density "---

Meysam R. Danaee, *Department of Electrical Engineering, Sharif University of Technology, Tehran, Iran*Fereidoon Behnia

B3R.12 3D Models' Retrieval System Design Based on Poisson's Histogram of 2D Selective Views *****(\$\$\$)

Mohammad Ramezani, Computer Vision Res. Lab, Electrical Engineering Faculty, Sahand University of Technology, Tabriz Hossein Ebrahimnezhad

Poster Session (Power Engineering)

Rooms:	Room S
B3S.02	Induction Motor Stator Fault Detection via Fuzzy Logic "%%% Hamid Fekri Azgomi, Iran University of Science and Technology (IUST) Javad Poshtan
B3S.03	Comparison of Saturated Parameters of Three-Layer Interior Permanent Magnet Synchronous Machine Obtained from Lumped Parameter Model and Finite Element Method **** *** *** *** *** *** *** *** ***
B3S.04	Review of Induction Motor Testing and Monitoring Methods for Inter-turn Stator Winding Faults "% &% M. Eftekhari, Department of Electrical and Computer Engineering, Isfahan University of Technology, Isfahan, Iran M. Moallem, S. Sadri, A. Shojaei
B3S.05	A Mathematical Dynamic Model for Static and Dynamic Behaviours of MEMS-based AC Voltage Reference Source *** Source Add Mehrnezhad, EED, Amirkabir University of Technology Amir A.Suratgar, Saeed Khatami, Sima Sobhiyeh
B3S.13	Three Dimensional Finite Element Modeling of a Current Transformer and Analyzing its Operation under Normal Condition "%" & H. Givi, Department of Electrical Engineering, Amirkabir University of Technology, Tehran, Iran J. S. Moghani, M. A. Vakilian Zand, M. A. Noroozi
B3S.21	Probabilistic Modelling of Electric Vehicles' Parking Lots Charging DemanX"%' * M. H. Amini, Department of Electrical and Computer Engineering, Tarbiat Modares University M. Parsa Moghaddam
B3S.22	A Comprehensive Load Reduction Demand Response Program for Spinning Reserve Provision "% (\$ E. Heydarian-Forushani, Dept. of Electrical and Computer Engineering, Tarbiat Modares University (TMU), Tehran, Iran M. Parsa Moghaddam, M. K. Sheikh-El-Eslami

Signal Processing II

Room: Room A

Chairs: Mohammad H. Kahaei, Iran University of Science and Technology

Mohammad Molavi, Ferdowsi University of Mashhad

B4A.1 Adaptive Distributed Incremental Networks Based on the Selective Partial Update Affine Projection

Algorithm "% (*

Ali-Reza Danaee, Faculty of Electrical and Computer

Engineering, Shahid Rajaee Teacher Training University, Tehran,

Iran

Mohammad Shams Esfand Abadi

B4A.2 A New Variable Step-Size Normalized Subband Adaptive

Filter Algorithm Employing Dynamic Selection of

Subband Filterg *** (\$) \$

Mohammad Shams Esfand Abadi, Faculty of Electrical and Computer Engineering, Shahid Rajaee Teacher Training

University, Tehran, Iran Mohammad Saeed Shafiee

B4A.3 Computation Saving in a SRP-PHAT Sound Source

Locator Variant "%))

M. Seifipour, Elec. Eng. Department, Shahed University

S. Seyedtabaii

B4A.5 Kernel Recursive Least Squares-Type Neuron for

Nonlinear Equalization "% * \$

Mohammed Naseri Tehrani, Ferdowsi university

Majid Shakhsi, Hossein khoshbin

Optical Communication I

Room: Room B

Chairs: Nosratollah Geranpayeh, K. N. Toosi University of Technology

Mohammad Reza Pakravan, Sharif University of Technology

B4B.1 Design and Simulation of a ROADM-based DWDM

Network "%**

Vahid Abedifar, *Cyber Space Research Institute* Sadegh Abbasi Shahkooh, Ali Emami, Ali Poureslami,

S. A. Ayoughi

Vahid Abedifar, ECE Department, Shahid Beheshti University,

Tehran, Iran

Mohammad Eshghi

Seyedali Mirjalili, School of Information and Communication

Technology, Griffith University, Brisbane, Australia

S. Mohammad Mirjalili, ECE Department, Shahid Beheshti

University, Tehran, Iran

B4B.3 Performance of Back-propagation and Self Organizing

Map Neural Equalizers for Asymmetrically Clipped

Optical OFDM ***

Farideh Javidi, Engineering Department, Ferdowsi university of

Mashhad, Mashhhad, Iran

Hossein Khoshbin

B4B.4 Adaptive Level Control to improve QoS in OCDMA Local Area Networks *** %\$, &

Mohammad Hadi, Electrical Engineering Department, Sharif

University of Technology

Mohammad Reza Pakravan

Fields and Waves IV (Dielectric Antennas)

Room: Room C

Chairs: Jalil Rashed-Mohassel, University of Tehran

Amir Reza Attari, Ferdowsi University of Mashhad

B4C.1 Numerical Investigation of a Broadband Dielectric Resonator Antenna Backed by SIW Cavity *** \$\%\$, +

Hamideh Dashti, Electrical Departmen, Ferdowsi University of

Mashhad, Mashhad, Iran Mohammad H. Neshati

B4C.2 A Low Sidelobe and Wideband Series-Fed Dielectric Resonator Antenna Array *** %- %

M. Ranjbar Nikkhah, Center of Excellence on Applied Electromagnetic, School of ECE, University of Tehran, Tehran,

J. Rashed-Mohassel

A. A. Kishk, Department of Electrical Engineering, University of Concordia, Montreal, Canada

B4C.3 Mutual Coupling Reduction in Microstrip Patch Antenna

Arrays by using Planar EBG Structure in X Band "%-(

Seyed Mohammad Emamimeybodi, Department of Electrical

Engineering, Amirkabir University of Technology

Homayoon Oraizi, Department of Electrical Engineering ,Iran

University of Science and Technology

B4C.4 Design of a compact dual feed Dielectric Resonator

Antenna with Aperture Coupling "%--

S. shad, M.N. Azarmanesh

B4C.5 Design Investigation of a Dual Band, Dual Polarized Probe-fed DRAntenna feeding by SIW Cavity "%"\$"

Alireza Moosaei, Electrical Department, Ferdowsi University of

Mashhad, Mashhad, Iran

Mohammad H. Neshati, Morteza Rezaee

Computer Networks I

Room: Room D

Chairs: Mohammad Hossein Yaghmaee, Ferdowsi University of Mashhad

Amin Hosseini Seno, Ferdowsi University of Mashhad

B4D.3 A Congestion-Game Based Scheme for Handoff Management in Cognitive Radio Networks *** % \$ +

Hosein Aghajani, Faculty of Electrical and Computer Engineering

K. N. Toosi University of Technology Tehran, Iran

Abdorasoul Ghasemi

Biomedical Image Processing I

Room:	Room E
Chairs:	Hassan Ghasemian, Tarbiat Modares University Mohammad Sadegh Helfroush, Shiraz University
Invitred Talk	Hamid Abrishami Moghaddam, K. N. Toosi University of
	Technology
B4E.4	Segmentation of Carotid Arteries in Computed Tomography Angiography Images Using Fast Marching and Graph Cut Methods "%% H.R. Hemmati, Department of Radiation Medicine Engineering, Shahid Beheshti University, Tehran, Iran A.R. Kamali-asl, A.R. Talebpour, M. Alizadeh, S. Shirani

Electrical Machines and Transformers II

Room: Room F

Chairs: Davood Arab Khaburi, Iran University of Science and Technology

Jafar Ebadi, Ferdowsi University of Mashhad

Invited Talk Hossein Mohseni, University of Tehran

B4F.2 Experimental Evaluation on the dielectric breakdown

voltage of fresh and used Transformer Oil mixed with Titanium dioxide nanoparticles in the Gilan Electrical

distribution companm %%,

A Fallah-Shojaie, Department of chemistry, University of Guilan

A Tavakoli, Department of electrical engineering, Lahijan

Branch, Islamic Azad University

M Ghomashpasand, University of Guilan

S Hoseinzadeh, Gilan Electrical distribution company

Demand Management

Room: Room G

Chairs: Mostafa Rajabi, Khorasan Regional Eletric Company

Majid Oloomi, Ferdowsi University of Mashhad

B4G.1 Welfare Maximization under Real-time Pricing in Smart

Grid Using PSO Algorithm "%/&&

Gh. Asadi, Dept. of Electrical and Electronic Engineering Shiraz

University of Technology M. Gitizadeh, A. Roosta

B4G.2 Optimal Planning of Energy Resources in a small energy system under the Smart Home Conceph"% &-

Mohammad Hassan Amirioun, Center of Excellence for Power System Automation and Operation, Department of Electrical

Engineering, Iran University of Science and Technology

Ahad Kazemi

Logic and SRAM

Room: Room H

Chairs: Mohammad Sharifkhani, Sharif University of Technology

Ali Peiravi, Ferdowsi University of Mashhad

B4H.2 A Low-Power Area-Efficient Dynamic Circuit Using

Conditionally Charging Pattern with Embedded

Latching Capability "%)

Mahshid Nasserian, Electrical Engineering, Department Ferdowsi

University of Mashhad, Mashhad, Iran

Mohammd Maymandi-Nejad

B4H.5 A 32kb 90nm 10T-cell Sub-threshold SRAM with

Improved Read and Write SNM "B#5

Sina Hassanzadeh, Department of Electrical Engineering,

Sharif University of Technology, Tehran, Iran

Milad Zamani, Khosrow Hajsadeghi

B4H.6 A New Sub-Threshold 7T SRAM Cell Design with

Capability of Bit-Interleaving in 90 nm CMOS "% %

Ghasem Pasandi, Silicon Intelligence & VLSI Signal Processing

Lab, University of Tehran, Tehran, Iran

Seyed Mehdi Fakhraie

Robotics and Automation III

Room: Room J

Chairs: Massoud Shafiee, Amirkabir University of Technology

Javad Askari, Isfahan University of Technology

Invited Talk Massoud Shafiee, Amirkabir University of Technology

B4J.1 Modelling and Analysis of Quadruped Walking Robot

Using Singular System Theory "%/ +

Maryam Sadati, Amirkabir University of Technology, Tehran, Iran

Mohammad Hosseinzadeh, Masoud Shafiee

B4J.2 Interval-Analysis-Based Determination of the ingularity-

free Workspace of Gough-Stewart Parallel Robots "%) '

M. Hadi Farzaneh Kaloorazi Mehdi Tale Masouleh St´ephane Caro

B4J.3 Static Modeling of Continuum Robots by Circular

Elements "%) -

Mohammad Dehghani, Center of Excellence in Robotics and

Control

S. Ali A. Moosavian

Radio Frequency Circuits I

Room: Room K

Chairs: Ali Fotowat-Ahmady, Sharif University of Technology

Rasoul Dehghani, Isfahan University of Technology

B4K.2 A Ring-Type ILFD with Locking-Range of 91% for

Divide-by-4 and 40% for Divide-by-8 with Quadrature

Outputs "%")

Najmeh Hajamini, Integrated Circuits Design Laboratory, Department of Electrical Engineering, Amirkabir University of

Technology, Tehran, Iran

Mohammad Yavari

B4K.3 A Low Jitter 110MHz 16-Phase Delay Locked Loop

Based on a Simple and Sensitive Phase Detector "%/+\$

Sarang Kazeminia, Microelectronics Research Laboratory, Urmia

University, Urmia, Iran

Khayrollah Hadidi, Abdollah Khoei

B4K.6 A Precise $\Delta\Sigma$ -based Digitally Controlled Oscillator

(DCO) for All-Digital PLL "%+)

Samira Jafarzade, Tarbiat Modares University

Abumoslem Jannesari

Image Processing and Recognition IV

Room: Room A

Chairs: Saeid Saryazdi, Shahid Bahonar University of Kerman

Shadrokh Samavi, Isfahan University of Technology

C1A.2 Accelerating Image Resizing by Multiple Seam Removal

and Path UpdatY ... %/4-

Ali Ajorian, Department of Electrical and Computer Engineering

Isfahan University of Technology Isfahan, Iran

Shadrokh Samavi, Majid Mohrekesh

C1A.6 A Novel Video Error Concealment Technique Using

Modified Boundary Matching Algorithm With Correlation

Function "%)

Ali Radmehr, Faculty of electrical and computer engineering

 ${\it K.N. Toosi\ university\ of\ technology,\ Teahran,\ Iran}$

Abdorasoul Ghasemi

Wireless Communications IV

Room: Room B

Chairs: Abbas Mohammadi, Amirkabir University of Technology

Hossein Zamiri, Ferdowsi University of Mashhad

C1B.1 Optimal Beamforming in Wireless Multiuser

MIMO-relay Networks "% -

Mohammad-Hossein Golbon-Haghighi, Pasargad Higher

Education Institute, Shiraz, Iran

Mojtaba Shirazi, Behrad Mahboobi, Mehrdad Ardebilipour

C1B.2 Beamforming Algorithms for Multiuser MIMO Uplink

Systems: Parallel and Serial Approaches "% (

S.M.J. Asgari Tabatabaee, Electrical Engineering Department,

Ferdowsi University of Mashhad

H. Zamiri-Jafarian

C1B.3 Particle Swarm Optimization for Energy Efficient

Antenna Selection in MIMO Broadcasting Channel "% -

Mahnaz Sinaie, Communication system Lab, TarbiatModares University (TMU), Tehran, Iran

Masumeh Sadat Tohidi, Paeiz Azmi

C1B.4 An Adaptive Cooperative Strategy for Underlay MIMO

Cognitive Radio Networks "%\$\$"

Mehdi Ghamari Adian, Electrical Engineering Department Amirkabir University of Technology, Tehran, Iran

Hassan Aghaeinia

C1B.6 Circuit Power Considered Energy Efficiency In Decode-

and-Forward Relaying "% \$\$-

Mohammad Hossein Chinaei, ECE Departement, Isfahan

University of Technology, Iran

Mohammad Javad Omidi, Jafar Kazemi

Radar and Sonar III

Room: Room C

Chairs: Mohammad Farzan Sabahi, University of Isfahan
Hossein Khoshbin, Ferdowsi University of Mashhad

C1C.1 Underwater Acoustic Sensor Network Localization

Using Four Directional Beams "%%%

Rahman Zandi, *University of Tehran, Tehran, Iran* Mahmoud Kamarei, *University of Tehran, Tehran, Iran* Hadi Amiri, *Engineering Research Institute, Tehran, Iran*

C1C.2 Underwater Acoustic Sensor Network Localization Using Received Signals Power *** %&&\$

Rahman Zandi, *University of Tehran, Tehran, Iran* Mahmoud Kamarei, *University of Tehran, Tehran, Iran* Hadi Amiri, *Engineering Research Institute, Tehran, Iran*

Computer Architecture

Room: Room D

Chairs: Hamid Noori, Ferdowsi University of Mashhad

Yasser Sedaghat, Ferdowsi University of Mashhad

Sanaz Rahimi Moosavi, Department of Information Technology,

University of Turku, Turku, Finland

Amir-Mohammad Rahmani, Department of Information Technology, University of Turku, Turku, Finland and, Turku Centre for Computer Science (TUCS), Turku, Finland

Pasi Liljeberg, Department of Information Technology, University

of Turku, Turku, Finland

Juha Plosila, Department of Information Technology, University of

Turku, Turku, Finland

Hannu Tenhunen, Department of Information Technology,

University of Turku, Turku, Finland

C1D.3 A Conceptual Custom Super-Computer Design for Real-Time Simulation of Human Brain *** & &

Nasim Farahini, Information and Communication Technology

Royal Institute of Technology Stockholm, Sweden

Ahmed Hemani

C1D.5 Hierarchical Defect Tolerance Technique for NRAM Repairing with Range Matching CAM^{···}%& ,

Hossein Pourmeidani, Computer Engineering Department Azad

University of Arak Isfahan, Iran

Mehdi Habibi, Electrical Engineering Department Isfahan

University Isfahan, Iran

Biomedical Image Processing II

Room: Room E

Chairs: H. Abrishami Moghaddam, K. N. Toosi University of Technology

Mahdi Saadatmand, Ferdowsi University of Mashhad

C1E.4 High Resolution Tagging Pattern in the Polar

Coordinate System; A Reconstruction Based Approach "% (

Ali Aghaeifar, Iran University of Science and Technology (IUST), Tehran, Iran&Amirkabir University of Technology (Tehran

Polytechnic), Tehran, Iran

Nafiseh Babaee, Amirkabir University of Technology (Tehran

Polytechnic), Tehran, Iran

Abbas N. Moghaddam, David Geffen School of Medicine at

UCLA, Los Angeles, California, USA

Ahmad Ayatollahi, Iran University of Science and Technology

C1E.5 Investigation of the Effects of Transducer Parameters on Adaptive MV Beamformers In Medical Ultrasound

Applications "% (-

Seyed Amin Izadi Avanji, Ultrasonic Lab, Department of

Electrical and Computer Engineering, Tarbiat Modares University,

Tehran, Iran

Ali Mahlooji Far, Babak Mohammadzadeh Asl

C1E.6 Ultrasound Image Segmentation by Using a FIR Neural Network **B#5

Nima Torbati, Department of Electrical Engineering Iran University of Science and Technology, Tehran, Iran

Ahmad Ayatollahi, Ali Kermani

Power Quality and FACTS I

Room: Room F

Chairs: Ali Saeidi, Mashhad Electric Energy Distribution Co.

Reza Ghazi, Ferdowsi University of Mashhad

C1F.1 8 YhYWfjcb 'UbX'7 'Ugg]ZJWUfjcb 'cZ<][\ '=a dYXUbWY': Ui 'hg']b

Dck Yf 8]glf]Vi f]cb BYfk cf_g I g]b['5 FHBYi fU BYfk cf_g "%))

KOP kmqqhgmt. "O O'Uctrem" cpf "UOO O'Uj cj tvcuj

Hgtfqy uk'Wpkxgtukxf "qh'O cuj j cf. "Ko cp"PknqqhgntB um0no @eOt

Lapf k'Uj cr qwt 'Wpkxgtukv{ .''UctrcnB kwuv@e0t

Egpvgt "qhGzegngpeg"hqt "Rqy gt "Ul wgo "Cwvqo cvkqp"cpf "Qr gt cvkqp

C1F.2 A Three-Phase Four-leg DVR Using Three Dimensional

Space Vector Modulation "% % %

Aziz Tashackori, Faculty of Electrical and Computer Engineering, University of Tabriz, Tabriz, Iran Seyed Hossein Hosseini, Mehran Sabahi, Tohid Nouri

C1F.4 Multi-Objective Optimization Based Approaches for

Hybrid Power Filter Design "% **

Hamid Reza Imani, Department of Electrical, Electronic & Systems Engineering, University Kebangsaan Malaysia, Selangor,

Malaysia

Azah Mohamed, Hussain Shreef, Hussain Shreef

Restructured Power System II

Room: Room G

Chairs: M. S. Ghazizadeh, Power and Water University of Technology Mohammad Hossein Javidi, Ferdowsi University of Mashhad

C1G.3 Studding Two Indices of Voltage Stability in Reliability
Constrained Unit Commitment in a Day-ahead Market *** %2+%

M. Khalifeh, Department of Electrical Engineering, Faculty of Engineering, Shahid Chamran University, Ahvaz, Iran S. S. Mortazavi, M. Joorabian, V. Davatgaran

C1G.5 Optimal Demand Response Program for Active market power reduction"3499

Hasan Jalili, Faculty of Electrical and Computer Engineering, Tarbiat Modares University, Tehran, Iran Mohsen Parsa Moghadam

C1G.6 Asset and Risk Management for a Wind Farm in a Competitive Electricity Market "%, &

H. Izadpanah, Department of Electrical and Computer Engineering, Isfahan University of Technology, Isfahan, Iran G. R. Yousefi, S. Makhdoumi Kaviri

Data Converters

Room: Room H Chairs: Mohammad Yavari, Amirkabir University of Technology Mohammad Taherzadeh, Ferdowsi University of Mashhad C1H.1 A Reduced-Sample-Rate 2-2-0 MASH-Delta-Sigma-Pipeline ADC Architecture "%, , Reza Mohammadi, Faculty of ECE, K. N. Toosi University of Technology, Tehran, Iran Hossein Shamsi C1H.2 New SNDR Enhancement Techniques In Pipelined ADC ** & Mohsen Hassanpour Ghadi, Sharif University of Technology Seyede Mahya Safavi, Mohammad Sharifkhani C1H.3 A New Power Efficient Wireless Non-Uniform Adaptive-Sampling ECG Recording System "% + Maryam Zaare, Integrated Systems Lab., Department of Electrical Engineering, Ferdowsi University of Mashhad, Mashhad, Iran Mohammad Maymandi-Nejad C1H.5 **Detailed Study of the Time Estimation in Level-Crossing** Analog-to-Digital Converters "% \$& Nassim Ravanshad, Electrical Engineering Department, Ferdowsi University of Mashhad, Mashhad, Iran Hamidreza Rezaee-Dehsorkh, Reza Lotfi C1H.6 **Design of a Low-power Compressive Sampling Circuit** for Gaussian Sensing Matrices "% \$, Parvin Bahmanyar, Digital System Design Laboratory, Electrical Engineering Department, Ferdowsi University of Mashhad, Mashhad, Iran

Saied Hosseini-Khayat

Nonlinear Systems and Chaos II

Room: Room J

Chairs: Mohammad Saleh Tavazoei, Sharif University of Technology

Maryam Dehghani, Shiraz University

Invited Talk Mohammad Saleh Tavazoei, Sharif University of Technology

C1J.3 Backstepping Time-scale Separation Redesign for Stabilization of a Class of Nonlinear Systems with

Matched and Unmatched Uncertainties "% % Shabnam Pourdehi, School of Electrical and Computer

Engineering, Shiraz University, Shiraz, Iran

Alireza Khayatiyan

C1J.4 A New State Estimation Method for Unit Time-Delay

Systems Based on Kalman Filter "% %

Behrouz Safarinejadian, Department of Electrical Engineering,

Shiraz University of Technology

Mohiyeddin Mozaffari

Poster Session (Electronic Engineering and **Control Engineering)**

Room: Room P C1P.02 **Designing Inverse Dynamic Controller with Integral** Action for Motion Planning of Surgical Robot in the Presence of Bounded Disturbances "% & A. Aminzadeh Ghavifekr, Faculty of Electrical and Computer Engineering, University of Tabriz, Tabriz, Iran M.A. Badamchizadeh, G. Alizadeh A. Arjmandi, Faculty of Electrical and Computer Engineering, K.N. Toosi University, Tehran, Iran C1P.06 **Delayed Teleoperation System In Presence of Moving** Virtual Fixture "%'\$ Faezeh Kazemi, Amirkabir university of Technology, Tehran, Iran Seved Mehdi Rezaei, Saeed Shiry Ghidary Mohammad Zareinejad, Mohammad Reza Dehghan C1P.09 Modified PD based bilateral nonlinear teleoperation with Flexible link Robots "%' * Mohadeseh Yaryan, Amirkabir University of Technology: dept. Mechanical Engineering Tehran, Iran Mahyar Naraghi, Seyed Mehdi Rezaei, Mohammad Zareinejad, HamedGhafarirad C1P.11 Laser Diode Modulation Under Large Signal Conditions "% (& Arman Ahmadian, Department of Electrical Engineering Sharif University of Technology Tehran, Iran C1P.14 Design of tunneling field-effect transistor (TFET) with Al_xGa_{1-x} AS/In_xGa_{1-x} AS hetero-junction "% (+ M. R. Salehi, Shiraz university of technology E. Abiri, B. Dorostkar S. E. Hosseini, Ferdowsi university of Mashhad C1P.16 On the Intelligent Components Geometry Design of a **Current Reuse Folded Cascode Concurrent Dual-band** CMOS LNA"%)\$ A. Fathianpour, Engineering Faculty, Shahed University S. Seyedtabaii C1P.18 An Ultra-Wideband Common Gate LNA With gm-Boosted And Noise Cancelling Techniques "%)*

Amin Jamalkhah, Department of Electrical Engineering, Shahid Bahonor University of Kerman, Iran Ahmad Hakimi

C1P.19 Design of Low Cost Class-E Power Amplifier for HF Band Applications "% * %

Javad Yavand Hasani, Iran University of Science and Technology (IUST), Tehran

Poster Session (Electronic Engineering and Control Engineering)

Room: Room P

C1P.21 A 2.4-GHz Subthreshold Down-conversion Mixer with Improved Noise Figure **B#5

Maryam Safari, Electrical Engineering Department, University of Zanjan, Zanjan, Iran

Siroos Toofan, Leila Bagheriye

C1P.22 A New Linearization Technique for CMOS Low Noise Amplifiers with Balun Circuitry *** **

Mahdi Barati, Integrated Circuit Design Laboratory, Department of Electrical Engineering, Amirkabir University of Technology, Tehran, Iran

Babak MazhabJafari, Mohammad Yavari

C1P.23 Threshold characteristics analysis of InP-based PhC VCSEL with buried tunnel junction *** +%

Saeid Marjani, Department of Electrical Engineering Ferdowsi University of Mashhad, Iran

Seyed Ebrahim Hosseini

Rahim Faez, Department of Electrical Engineering Sharif University of Technology Tehran, Iran

Poster Session (Computer Engineering and Biomedical Engineering)

Room:	Room Q
C1Q.02	Joint Scheduling and Routing Tree Construction in IEEE 802.16 Wireless Mesh Networks "%+) Meysam Bayani Rad, Department Computer Engineering Urmia University, Urmia, Iran
	Saleh yousefi, Jamshid Bagherzadeh
C1Q.05	Fault-tolerant MIN Shuffle-Exchange NoC "%, % Ali Mazaheri, Islamic Azad University Central Tehran Branch Reza Sabbaghi-Nadooshan
C1Q.07	A multi-thread based approach for IP Address Lookup "%, Hootan Zhian, AmirKabir University of Technology Ali Jokar, Navid Farrokhi, Masoud Sabaei
C1Q.08	A New GA Based Method for Improving Hybrid Clustering "% - % N. Razizadeh, University of Tabriz, Tabriz, Iran M. A. Badamchizaeh M. S.G. Ghasempour, Amirkabir University of Technology, Tehran, Iran
C1Q.09	Artificial Neural Networks Generation Using Grammatical Evolution "% - + Khabat Soltanian, University of Kurdistan, Sanandaj, Iran Fardin Akhlaghian Tab, Fardin Ahmadi Zar Ioannis Tsoulos, Department of Computer Science, University of Ioannina, Ioannina, Greece
C1Q.13	Visualization of Palm Veins in NIR Images, Application in Clinical Injection and Identification % \$& Maral Fakoor, <i>University of Tehran Tehran, Iran</i> Seyed Kamaloddin Setarehdan, Reihaneh Sadat Daneshmand

Poster Session (Communications)

Room:	Room R
C1R.01	A Hybrid Genetic Algorithm-Neural Network for Modeling of Periodic Nonlinearity in Three-Longitudinal-Mode Laser Heterodyne Interferometer "% \$, Saeed Olyaee, Faculty of Electrical and Computer Engineering, Shahid Rajaee Teacher Training University, Tehran, Iran Reza Ebrahimpur, Somayeh Esfandeh
C1R.03	Plamonic Behavior of Metallic and Core-shell Nanostructures "% % Fatemen Taghian, Nano-Optoelectronic Research Lab, Department of Electrical and Computer Engineering, Tarbiat Modares University, Tehran, Iran Mansooreh Yousefi rad, Vahid Ahmadi
C1R.04	A Novel Multi-Channel Photonic Crystal Waveguide Biosensor "% %- Saeed Olyaee, Faculty of Electrical and Computer Engineering, Shahid Rajaee Teacher Training University (SRTTU), Tehran, Iran Samira Najafgholinezhad
C1R.07	Planar Metallic Lens Based on an Array of Slits Modified by Perpendicular Cuts "% &% Hadiseh Nasari, Department of Electrical and Computer Engineering, K. N. Toosi University of Technology, Tehran, Iran Mohammad Sadegh Abrishamian
C1R.09	Plasmonic Waveguide Directional Coupler Based on Two Dimensional Two-Hole Coupler "% &) Alireza Dolatabady, Optical Communication Lab., Faculty of Electrical and Computer Engineering, K. N. Toosi University of Technology, Tehran, Iran Nosrat Granpayeh
C1R.10	Design and Optimization of a Double-Clad Yb-Doped Fiber Master Oscillator - Power Amplifier "% &, Sajjad Mohammadian, Physics Department, Amirkabir University of Technology, Tehran, Iran Parviz Parvin, Maryam Ilchi-Ghazaani Reza Poozesh, Fiber group, Iranian National Center for Laser Science and Technology, Tehran, Iran Kamran Hejaz
C1R.11	Metallic Nanostructures for Enhancement of Absorption in Thin-film Solar Cells "%' 'Fahimeh Armin, Communications and Computer Research Center Ferdowsi University of Mashhad, Mashhad, Iran Mir Mojtaba Mirsalehi

Poster Session (Power Engineering)

Room:	Room S
C1S.02	Construction of a Low Cost Asymmetric Bridge Converter for Switched Reluctance Motor DrivY"%, E.Afjei, Department of Electrical Eng., Faculty of Electrical & Computer Eng., Shahid Beheshti University G.C., Tehran, Iran A.Siadatan M.Rafiee, Shahid Beheshti University G.C., Tehran, Iran
C1S.09	Torque Ripple Reduction of SRM Drives Below the Base Speed Using Commutation Angles Control "% ('A. Shahabi, Isfahan University of Technology A. Rashidi, S.M. Saghaian-Nejad
C1S.11	5 'AcXY!6 UgYX': i nnni7 cblfc``Yf'l g]b['l\ Y'DUfU`Y'8]glf]Vi hYX 7 ca dYbgUf]cb'AY\ cX'Zcf'Ei UXfchcf'5 H]hi XY'GHJV]`]nUf]cb'''% (Uqtqwij "Uj gknj r qwt."Ucggf "Dci j gtk'Uj qwtcnk CtvlHekcn'Et gcwnt g'Ncd. 'Grgent kecn'Gpi kpggt kpi "Uej qqn''Uj ct kHtWpkxgt ukn{ qltVgej pqrqi {.'"Vgj tcp."Kcp
C1S.12	Power Factor Improvement Using Current Source Rectifier with Battery Charging Capability in Regenerative Mode of Switched Reluctance Motor Drives "%()) A. Rashidi, Dept. of Electrical and Computer Eng., Isfahan University of Technology, Isfahan, Iran M. M. Namazi, A. Bayat, S.M. Saghaiannejad
C1S.16	The Effect of Time-Based Demand Response Program on LDC and Reliability of Power System "% * \$ Mahdi Samadi, Department of Electrical Engineering, Ferdowsi University of Mashhad, Iran Mohammad Hossein Javidi Mohammad Sadegh Ghazizadeh, Department of Electrical Engineering, Power and Water University of Technology, Iran
C1S.21	Generalized Formulation for Optimal Placement of PMUs Considering Single Unit orSingle Branch Outage "% ** Nima Amin, Faculty of Elec. & Robotic Engineering, Shahrood University of Technology Mahdi Banejad
C1S.22	A Proposed Approach for Modeling of Power System Uncertanties to Design Robust PSS "% +% M.B Abolhasani Jabali Department of Electrical Engineering, Shahed University, Iran Grid Management Company(IGMC), Tehran, Iran M.H Kazemi, Saeid Joudaki Department of Electrical Engineering, Shahed University Tehran, Iran

Poster Session (Power Engineering)

Room: Room S

C1S.23 **Coordinated Design of MPSS and TCSC-based Damping** Controller Using PSO to Enhance Multi-machine Power System Stability "% ++

Javad Morsali, Electrical and Computer Engineering Faculty, Tabriz University, Tabriz, Iran Rasool Kazemzadeh, Dept. of Electrical Engineering, Sahand University of Technology, Tabriz, Iran Mohammad Reza Azizian

Signal Processing III

Room: Room A

Chairs: Kamal Mohamedpour, K. N. Toosi University of Technology

Ali Akbar Tadaion, Yazd University

C2A.1 Comparison of Nonquiet Spectrum Sensing in Filter Bank Multicarrier and OFDM Based Cognitive Radio

Systems"%, '

Afrooz Jalali, Department of Electrical and Computer Engineering Isfahan University of Technology Isfahan, Iran

Mohammad Javad Omidi

Hamid Saeedi-Sourck, Department of Electrical and Computer

Engineering Yazd University Yazd, Iran

C2A.3 Improving Instantaneous Capacity and Outage

Probability in DF-Relaying "%,,

Majid Raeis, Department of Electrical and Computer Engineering

Isfahan University of Technology Isfahan, Iran

Mohammad JavadOmidi, JafarKazemi

C2A.4 Effects of Channel Estimation on the Optimal Number of Active Users in Multi-User Channels with Rayleigh

Fading "% - '

Ali Eslami, University of Sistan & Baluchestan Department of Communications Engineering Zahedan, Islamic Republic of Iran

Hengameh Keshavarz

Field and Waves V (Electromagnetics)

Room: Room B

Chairs: Mahmoud Kamarei, University of Tehran

Mir-Mojraba Mir-Salehi, Ferdowsi University of Mashhad

C2B.3 Analytical Treatment of Electromagnetic Scattering by a

Lossy Multilayer Strip "% --

A. Fazel, Faculty of Electrical and Computer Engineering, K. N.

Toosi University of Technology, Tehran, Iran

T. Pakizeh, M. S. Abrishamian

C2B.4 The Effect of Polarization in Shape Reconstruction of

Two-Dimensional Penetrable and Non-penetrable Objects Using Linear Sampling Method **% \$&

Mehdi Salar Kaleji, Electrical and Computer Engineering, Isfahan

University of Technology, Isfahan, Iran Mohammad Zoofaghari, Reza Safian

C2B.5 Reconstruction of Hidden Wire Objects Using Complex

Time Green's Functions and Particle Swarm

Optimization "%) \$*

Masoud Roodaki-Lavasani-Fard, School of Electrical and Computer Engineering, College of Engineering, University of

Tehran, Iran Reza Faraji-Dana

C2B.6 Modified Physical Optics Approximation for RCS

Calculation of Dielectric Coated PEC with Axial

Symmetry "%) %

Hossein Mohammadzadeh, Department of Electrical and Computer Engineering Isfahan University of Technology (IUT)

Isfahan, Iran

Abolghasem Zeidaabadi Nezhad, Zaker Hossein Firouzeh

Information and Communication Security II

Room: Room C

Chairs: Mahdi Berenjkoob, Isfahan University of Technology

Ghosheh Abed Hodtani, Ferdowsi University of Mashhad

C2C.1 Security Assessment of Scalar Costa Scheme Against

Known Message Attack in DCT-Domain Image

Watermarking "%) %)

Reza Samadi, Electrical Engineering Dept. Ferdowsi University

of Mashhad Mashhad, Iran Seyed Alireza Seyedin

C2C.2 Hybrid Image Watermarking Using Local Complexity

Variations % &\$
Shekoofeh Azizi, Department of Electrical and Computer

Shekoofeh Azizi, Department of Electrical and Computer Engineering, Isfahan University of Technology, Iran

Majid Mohrekesh, Shadrokh Samavi

C2C.3 A New High Capacity and EMD-based Image Steganography Scheme in Spatial Domain 8 &*

Hamzeh Hajizadeh, Department of Electrical Engineering, Iran University of Science and Technology Narmak, Tehran, Iran

Ahmad Ayatollahi, Sattar Mirzakuchaki

C2C.6 Recognition of Channel Encoder Parameters From Intercepted Bitstream "% ' &

Yasser Karimian, Coding and Cryptography Lab. Faculty of Electrical and Computer Engineering K. N. Toosi University of

Technology, Tehran, Iran Mahmoud Ahmadian Attari

Computer Networks II

Room: Room D Chairs: Mohammad Hossein Yaghmaee, Ferdowsi University of Mashhad Amin Hosseini Seno, Ferdowsi University of Mashhad C2D.1 A Cooperative rintrusion detection algorithm based on trusted voting for mobile ad hoc network"%) ' + Seyyedeh Fatemeh Malek, Department of Computer Engineering Siyavash Khorsandi C2D.2 An AQM-support Congestion Control for SCTP multihoming (QCC-SCTP)"%)() Afsane Zahmatkesh, Dept. of Computer Engineering Ferdowsi University, Mashhad, Iran Mohammad Hossein Yaghmaee, Amir Hossein Mohajerzadeh C2D.3 Internet Traffic Classification using MOEA and Online Refinement in Voting on Ensemble Methods "%) % Mohammad Sadegh Aliakbarian, Department of Electrical and Computer Engineering Isfahan University of Technology Isfahan, Iran Ali Fanian C2D.4 Modeling Vehicle Safety in Vehicular Networks Using Markov Chain Model Based on Cooperative Awareness "%) + Seyed Mohammad Hosseini, Department of Engineering, Faculty of Computer engineering Urmia University, Urmia, Iran

Saleh Yousefi, Mohammad Javad Fazel Ashrafi

Biomedical Systems modeling

Room: Room E

Chairs: Fateme Helen Ghane, Ferdowsi University of Mashhad

Nadia Naghavi, Ferdowsi University of Mashhad

Invited Talk Fariba Bahrami, University of Mashhad

C2E.1 Sliding mode robust control of SEIR epidemic models "% * '

Asier Ibeas, Escola d'Enginyeria Universitat Aut`onoma de

Barcelona Bellaterra, Barcelona, Spain

Manuel de la Sen and S. Alonso-Quesada, *Departmento de Electricidad y Electr 'onica Universidad del Pa'ıs Vasco*

P.O. Bilbao, Spain

C2E.3 Optimal Electrode Placement in Transcranial Direct Current Stimulation via Genetic Algorithm "%) *-

Raheleh Tavakoli, Department of Biomedical Engineering, Science and Research Branch, Islamic Azad University

Tehran, IRAN

Hamed Sadjedi, Technical and Engineering Faculty,

Shahed University of Tehran, Iran

S. Mohammad P. Firoozabadi, Department of Medical Physics

Tarbiyat Modares University of Tehran, IRAN

C2E.4 Simulation of Coloured Human Eye Vision on the basis

of Aberrations Effects "%) +)

TaherBodaghi, Faculty of Electrical and Computer Engineering,

Babol Noshirvani University of Technology

HussainMontazeryKordy, Mohammad Reza karami

C2E.5 Modelling Place Field Formation in Hippocampus

Considering Recurrent Connections in CA3 and STDP "%), \$

Shiva Ghaani Farashahi, School of ECE, College of Engineering

University of Tehran, Tehran, Iran

Fariba Bahrami

Distributed Generation III

Room G Room: **Chairs:** Mohammad Reza Aghaebrahimi, University of Birjand Pedjman Pourmohamadiyan, Ferdowsi University of Mashhad C2G.1 **Secure Multi-Objective Distributed Generation Planning** In Distribution Network "%,) A. Habibi, Department of Electrical and Electronics Engineering, Shiraz University of Technology, Shiraz, Iran M. Nayeripour, J. Aghaei C2G.3 Probabilistic Reliability Evaluation of Hybrid Wind-Photovoltaic Power Systems "%) - % MortezaAien, Graduate University of Advanced Technology, Kerman, Iran AhadBiglari, Islamic Azad University, Science and Research Branch, Kerman, Iran Masoud Rashidinejad, ShahidBahonar University, Kerman, Iran C2G.5 A Neural Network-Based Model for Wind Farm Output in Probabilistic Studies of Power Systems "% -+ S. Riahinia, Sharif University of Technology, Tehran, Iran A. Abbaspour M. Fotuhi-Firuzabad, Sharif University of Technology, Tehran M. Moeini-Aghtaie

Radio Frequency Circuits II

Room: Room H

Chairs: Ali Medi, Sharif University of Technology

Rasoul Dehghani, Isfahan University of Technology

Invited Talk Ali Medi, Sharif University of Technology

C2H.1 A Wideband CMOS Divide-by-3 Injection-Locked

Frequency Divider "% \$'

Rasoul Dehghani, Electrical and Computer Engineering, Department Isfahan University of Technology Isfahan, Iran

C2H.4 A New IR-UWB Pulse to mitigate coexistence issues of

UWB and Narrowband systems "% \$+

Sayed Vahid Mir-Moghtadaei, Department of Electrical and Computer Engineering, Isfahan University of Technology

Abolghasem Zeidaabadi Nezhad

 $\label{lem:alignment} Ali\ Fotowat-Ahmady, \textit{Department of Electrical Engineering},$

Sharif University of Technology

C2H.5 A Wide Band Envelope Modulator for Envelope Tracking

RF Power Amplifiers *** % %

Atefeh Salimi, Department of Electrical and Computer Engineering, Isfahan University of Technology, Isfahan, Iran Rasoul Dehghani

Abdolreza Nabavi, Department of Electrical and Computer Engineering, Tarbiat Modarres University of Tehran, Tehran,

Iran

Optimal Control II

Room J Room: **Chairs:** Hamid Khaloozadeh, K. N. Toosi University of Technology Kamal Hosseini Sani, Ferdowsi University of Mashhad C2J.3 Immersion and Invariance Based Fault Tolerant" Adaptive Spacecraft Attitude Control "% % Danyal Bustan, Ferdowsi University of Mashhad Seyyed Kamal Hosseini Sani, Naser Pariz C2J.4 **Incommensurate Order Fractional Optimal Control** Application to Treatment of Psychiatric Disorders "% && S. S. Tabatabaei, Department of Electrical Engineering, Amirkabir University of Technology Tehran, Iran M. J. Yazdanpanah, Advanced Control Systems Lab. Control and Intelligent Processing Center of Excellence, School of Electrical and Computer, Tehran, Iran M. S. Tavazoei, Electrical Engineering Department, Sharif University of Technology, Tehran, Iran

Image Processing and Recognition V

Room: Room A

Chairs: Karim Faez, Amirkabir University of Technology

Shohreh Kasaei, Sharif University of Technology

C3A.1 Classification of Digital Communication Signals Based on Adaptive Neuro-fuzzy Inference System *** &+

Milad Azarbad, Department of Electrical Engineering, University

of Mazandaran, Iran

Hamed Azami, Department of Electrical Engineering, Iran

University of Science and Technology

Saeid Sanei, Faculty of Engineering and Physical Sciences,

University of Surrey, UK

C3A.3 Near-lossless Compression for High Frame Rate Videos "%" '

Najmeh Nazari, Department of Electrical and Computer Engineering Isfahan University of Technology, Isfahan, Iran Roozbeh Shams, Majid Mohrekesh, Shadrokh Samavi

C3A.4 Supervised Fully Constrained Linear Spectral Unmixing

using Evolutionary Strategy "%" -

Hossein Fayyazi, *Malek-Ashtar University of Technology* Hamid Dehghani, Mojtaba Hosseini

Hamid Dengham, Mojtaba Hosseim

C3A.5 A low cost and reliable Polak-Ribiere Conjugate Gradient Deflation ICA algorithm for real signals "% ()

M. Ghasemi-Fard, Electrical Department, Engineering Faculty, Shahid Chamran University of Ahvaz, Ahvaz, Iran

K. Ansari-Asl

L. Albera, Université de Rennes 1, LTSI, Rennes, France

A. Kachenoura, L. Senhadji

Photonics and Optoelectronics II

Room: Room B

Chairs: Tavakkol Pakizeh, K. N. Toosi University of Technology

Mir-Mojtaba Mirsalehi, Ferdowsi University of Mashhad

C3B.2 Design and Analysis of Quantum Ring Photodetector

Enhanced by Metallic Slits "%) \$

Faramarz Alihosseini, Dept. of Elect. and Comp. Eng., Tarbiat

Modares University, Tehran, Iran

Vahid Ahmadi

Ali Mir, Lorestan University, Khoramabad, Iran

C3B.4 Theoretical Investigation of Metal Schottky Barrier Detector on Si Microring Resonator *** (**) (**)

Aref Rasoulzadeh Zali, Faculty of Electrical and Computer Engineering, Advanced Devices Simulation Lab, Tarbiat Modares

University, Tehran, Iran

Mohammad Kazem Moravvej-Farshi

Gholamreza Abaeiani, Semiconductor laser department, laser and

optics school, Tehran, Iran

C3B.5 Theoretical Estimation of Optical Confinement Factor and its Effects on DC Characteristics of Long

Wavelength Transistor "%),

M.R. Farjadian, *Photonics Research Laboratory*, *Electrical Engineering Department*, *Amirkabir University of Technology*, *Tehran*, *Iran*

H. Kaatuzian, I. Taghavi

Fields and Waves VI (Microstrip Antennas)

Room: Room C

Chairs: Jalil Rashed-Mohassel, University of Tehran

Leila Yousefi, University of Tehran

C3C.2 Reconfigurable Single-Feed Antenna With Switchable

Polarization "% * &

Ailar Sedghara, Faculty of Electrical and Computer Engineering,

Tarbiat Modares University, Tehran, Iran

Zahra Atlasbaf

C3C.3 Analysis and Design of a Low Sidelobe Level and Wideband Aperture Coupled Microstrip Antenna Array Using

FDTD'''%**

P. Loghmannia, Department of Electrical Engineering

K. N. Toosi University of Technology, Tehran, Iran

M. Kamyab

M. Ranjbar Nikkhah, Center of Excellence on Applied

Electromagnetic systems, School of ECE, University of Tehran

Tehran, Iran

J. Rashed-Mohassel

M. R. Nickpay, Department of Electrical Engineering

Islamic Azad University, Shahre_e_Rey Branch

Tehran, Iran

C3C.4 Mutual Coupling Between Two Microstrip Patch

Antennas on Concave and Convex Cylindrical Surfaces "% +\$

Keyhan Hosseini, Tarbiat Modares University

Zahra Atlasbaf

C3C.5 Dual-Polarized Aperture-Coupled Wideband Microstrip

Patch Antenna with High Isolation for C-Band *** +(

A. Vaziri, Faculty of Electrical and Computer Engineering K. N.

Toosi University of Technology, Tehran, Iran

M. Kaboli, S. A. Mirtaheri

Artificial Intelligence III

Room: Room D

Chairs: Ahad Harati, Ferdowsi University of Mashhad

Mohammad B. Naghibi-Sistani, Ferdowsi University of Mashhad

Mohammad Motamedi, speed processing lab., Amirkabir

University of Technology

SimaSobhieh, AIMS lab., Amirkabir University of Technology. S. Ahmad Motamedi, Professor, EED, Amirkabir University of

Technology

AmirHossein Rezaie, Associate Professor, EED, Amirkabir

University of Technology

C3D.2 Evolutionary Based Matrix Factorization Method For

Collaborative Filtering Systems "%, (

Dariush Zandi Navgaran, Department of Electrical and Computer

Engineering University of Kurdistan, Iran Parham Moradi, Fardin Akhlaghian.

C3D.5 Effect of Observer Agent on Ad Hoc Teamwork in the

pursuit domain "%, -

Matin Kheirkhahan, Mohammadreza Kangavari, Farimah

Farahmandi

Power Electronics and Drive III

Room: Room G

Chairs: Abolfazl Vahedi, Iran University of Science and Technology

Mohammad Monfared, Ferdowsi University of Mashhad

C3G.2 Frequency Adaptive Repetitive Control of Grid

Connected Inverter for Wind Turbine Applications "%-)

Ali Asbafkan, Department of Electrical Engineering

University of Isfahan

Behzad Mirzaeeian, Mehdi Niroomand

Hosein Abootorabi Zarchi, Department of Electrical Engineering

Ferdowsi University of Mashhad, Mashhad, Iran

C3G.3 Vienna Rectifier and B4 Inverter as PM WECS Grid

Interface "4\$%

Parviz Najafi, Faculty of Electrical and ComputerEngineering,

Tarbiat Modares University, Tehran, Iran

Amirhossein Rajaei, Mustafa Mohamadian, Ali Yazdian Varjani

Opamps and Comparators

Room: Room H

Chairs: Majid Baghaei-Nejad, Hakim Sabzevari University

Hooman Nabovati, Sajjad Institute of Higher Education

C3H.1 A Novel DC Gain Enhancement Technique for

Amplifiers with cascoded structure "%+\$*

 ${\it Faezeh\ Abdollahi}, Department\ of\ Electrical\ Engineering,\ Islamic$

Azad University, Arak Branch, Arak, Iran

Farhad Razaghian, Department of Electrical Engineering, Islamic

Azad University, South Tehran Branch, Tehran, Iran

C3H.2 A Low-Noise Low-Power MOSFET only

Electrocardiogram Amplifier "% %

Maryam Ghamati, Department of Electrical Engineering Ferdowsi

University of Mashhad, Mashhad, Iran

Mohammad Maymandi-Nejad

C3H.3 A New Rail-to-Rail Ultra Low Voltage High Speed

Comparator "%+%)

Masoume Akbari, Department of Electrical Engineering,

Ferdowsi University of Mashhad, Mashhad, Iran

Mohammad Maymandi-Nejad

S. Abdollah Mirbozorgi, Electrical and Computer Engineering

Department, University of Laval, Laval, Canada

C3H.4 Bulk Driven Indirect Feedback Compensation

Technique for Low Voltage Applications "% 4-8%

Arash Esmaili, Microelectronics Research Center, Urmia

University, Urmia, Iran

Hadiseh Babazadeh, Khayrollah Hadidi, Abdollah Khoei

C3H.5 Modified Structures for Low Power Sub-threshold Level

Translators ***

Seyed Rasool Hosseini, Ferdowsi University of Mashhad

Ehsan Rahiminejad, Reza Lotfi

C3H.6 Analysis of Power in Dynamic Comparators "%+" \$

Samaneh Babayan-Mashhadi, Integrated Systems Lab,

Department of Electrical Engineering, Ferdowsi University of

Mashhad, Mashhad, I. R. Iran

Mojtaba Daliri, Reza Lotfi

Adaptive Control

Room: Room J

Chairs: Ali Khaki-Seddigh, K. N. Toosi University of Technology

K. Mousavi Mashhadi, Iran University of Science and Technology

C3J.4 Implementation and Performance Comparison of

indirect Kalman Filtering Approaches for AUV

Integrated Navigation System using Low Cost IMU"'3956 Mohammad Shabani Sheijani, *Isfahan University of Technology*

Asghar Gholami, Narjes Davari Mehdi Emami, *Yazd University*

Poster Session (Electronic Engineering and Control Engineering)

Room: Room P C3P.04 State Estimation in TPN and PPN Guidance Laws by Using Unscented and Extended Kalman Filters "B#5 S.H. Moosapour, Faculty of Electrical and Computer Engineering, University of Tabriz, Tabriz, Iran S. Moosapour, mostafa.asadollahi C3P.06 Adaptive Coverage Control in Non-Convex Environments with Unknown Obstacles "%+(\$ M. Adibi, Electrical Engineering Department Amirkabir University of Technology Tehran, Iran H. A. Talebi, K.Y. Nikravesh C3P.08 Multi-sensor optimal information fusion Kalman filter with mobile agents in ring sensor networks "%+(* Behrouz Safarinejadian, Shiraz University of Technology Kazem Hasanpoor C3P.09 A New High-Resolution and High-Speed Open-Loop CMOS Sample and Hold Circuit "%) & Alireza Abolhasani, Microelectronic Research Laboratory University of Urmia, Urmia, Iran 57159 Khayrollah Hadidi, Mohammad Tohidi, Abdollah Khoei A K-Band Common-Source Gilbert-Cell Mixerwith High C3P.10 Gain and High Linearity for UWB Applications "%), Mohammad Beigizadeh, Tarbiat Modares University Abdolreza Nabavi C3P.12 Design of A Current-Mode Fully Programmable Interval Type-2 Fuzzifier for General-Purpose Applications "%+* ' Alireza Mesri, Microelectronics Research Laboratory Urmia University, Urmia, Iran Abdollah Khoei, Khayrollah Hadidi C3P.14 **Dual-mode High Gain and High-Q Active RF Band Pass** Filter "%+*, Shoeib Rahmatollahi, Tarbiat Modares University Bashir Fotouhi, Abumoslem Jannesari C3P.16 A Novel Technique for Wideband Bipolar Amplifiers "%++' Mehdi Ghasemzadeh, Microelectronic Research Laboratory Urmia University, Urmia, Iran Amin Akbari, Morteza Mousazadeh, Khayrollah Hadidi, Abdollah Khoei

Poster Session (Electronic Engineering and Control Engineering)

Room: Room P C3P.17 A 0.5V 200MHz Offset Trimmable Latch Comparatorin Standard 0.18um CMOS Process "%++-Meysam Mohammadi, Sahand University of Technology, Tabriz,Iran Khosrov D. Sadeghipour, University of Tabriz, Tabriz C3P.18 A New Technique for Background Calibration of Pipelined ADCs "%+, ' Meysam Mohammadi, Sahand University of Technology, Tabriz, Amir Alipour, Esmaeil N. Aghdam Khosrov D. Sadeghipour, University of Tabriz, Tabriz, Iran C3P.19 A 125MS/s Self-latch Low-Power Comparator in 0.35µm CMOS Process "%+,, Ali Baradaran Rezaeii, Urmia Graduate Institute, Urmia, Iran Leila Hasseli, Tohid Moradi C3P.20 A Low Dropout Voltage Regulator with Enhanced **Transconductance Error Amplifier and Small Output** Voltage Variations "%- & Ebrahim Abiri, Department of Electrical Engineering, Shiraz university of Technology, Shiraz, Iran Mohammad Reza Salehi, Sara Mohammadalinejadi C3P.22 **Low Power Design of Successive Approximation** Registers "%+-+ Rabeeh Majidi, ECE Department, Worcester Polytechnic Institute, Worcester MA USA C3P.24 **Decentralized Particle Filtering Based Fault Diagnosis** for Nonlinear Distributed and Interconnected Systems "% \$" Nargess Sadeghzadeh Nokhodberiz, Department of Electrical Engineering, Iran University of Science and Technology, Tehran, Iran

Javad Poshtan

Poster Session (Computer Engineering and Biomedical Engineering)

Room: Room Q C3Q.06 Increasing the Initial Convergence of Distributed Diffusion LMS Algorithm by a New Variable Tap-Length Variable Step-Size Method "% \$-Roghieh Mohammadloo, Faculty of Electrical & Computer Engineering, University of Tabriz Ghanbar Azarnia, Mohammad Ali Tinati C3Q.08 Forecasting Foreign Exchange Rates Using an IT2 FCM based IT2 Neuro-Fuzzy System "% % Emad Fallahzadeh, Dept. of Electrical and Computer Engineering Isfahan University of Technology Isfahan, Iran Mohammad Ali Montazeri C3Q.09 An Ensemble Learning Approach for Data Stream Clustering "% &\$ Ramin Fathzadeh, Mechatronics Research Laboratory Department of Computer Engineering, Qazvin Islamic Azad University Qazvin, Iran Vahid Mokhtari C3Q.12 New Hybrid Hepatitis Diagnosis System Based on Genetic Algorithm and Adaptive Network Fuzzy Inference System "% &* Mahdieh Adeli, Imam Khomeini International University Nooshin Bigdeli, Karim Afshar C3Q.14 Comparison of visual and proprioceptive training on multisensory perception using a new designed setup "% ' & Maryam Saidi, Amirkabir University of Technology (Tehran Polytechnic), Iran Abdolaziz Azizi Lari, Farzad Towhidkhah. C3Q.15 A New Approach to the Study of Heartbeat Dynamics Based on Mathematical Model "% ' * Sohrab Behnia, Department of Physics Urmia University of Technology (UUT) Urmia, Iran Javid Ziaei, Marjan Ghiassi C3Q.19 **Pressure Ulcer Risk Assessment by Monitoring** Interface Pressure and Temperature "% (% Farve Daneshvar Fard, Department of Electrical Engineering Biomedical Engineering Research Center, Ferdowsi University of

> Mashhad, Mashhad, Iran Sahar Moghimi, Reza Lotfi

Poster Session (Computer Engineering and Biomedical Engineering)

Room: Room Q

C3Q.20 Design of a Novel Wearable Human Computer Interface based on Electrooculograghy "% (* "

Sima Soltani, Department of Biomedical Engineering, University of Isfahan, Isfahan, Iran Amin Mahnam

Poster Session (Communications)

Room:	Room R
C3R.01	Steptrench plasmonic directional coupler "%) % Shahin Salarian, School of Electrical Engineering, Iran University of science and Technology, Tehran, Iran Mohammad H. Vadjed Samiei
C3R.07	Design and Fabrication of a Broadband Blade Monopole Antenna Operating in 30 MHz – 600 MHz Frequency Band "%)) Bijan Abbasi Arand, Tarbiat Modares University Reza Shamsaee Behzad Yektakhah, School of Electrical and Computer Eng, University of Tehran
C3R.11	Developing an Accurate and Simple Dispersion Analysis of TE10 mode of Substrate Integrated Waveguides "%), Mohammad Alijani-Ghadikolae, Electrical Department Ferdowsi University of Mashhad, Mashhad, Iran Mohammad H. Neshati
C3R.12	Design of Compact UWB Band Pass Filter Using Radial Stub Loaded Resonator and Cross-Shaped Coupled Lines with Improved Out-of-Band Performance and Sharp Roll-Off'''% * & B. Mohammadi, Urmia University, Urmia, Iran J. Nourinia, C. Ghobadi A. Valizade, Young Researchers Club, Qaemshahr Branch, Islamic Azad University, Qaemshahr, Iran
C3R.13	High Power Division Ratio Dividers for Millimeter-Wave Applications ** * + Laleh mirzavand, Electrical Engineering Department, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran Rashid Mirzavand, Abdolali Abdipour, Mohammad Mahdi Honari

Poster Session (Power Engineering)

Room:	Room S
C3S.02	Current Balancing, Reactive Power and Harmonic Compensation Using a Traction Power Conditioner on Electrified Railway System "% +% Iman Maghsoud, Iran University of Science and Technology Tehran Alireza Ghassem, Siamak Farshad, Seyed Saeed Fazel
C3S.03	A New Strategy for Harmonic Minimization Based on Triple Switching of Multilevel Converters "% ++ Yahya Naderi, Faculty of Electrical, Computer Engineering, Tabriz University, Tabriz, Iran Seied Hossein Hosseini, Arash Mahari Roya Naderi, Islamic Azad University, Heris Branch, Electrical Department, Heris, Iran
C3S.08	Different Strategies of Interruptible Load Contracts Implemented in Reliability Constrained Unit Commitment "%, ' V. Davatgaran, Department of Electrical Engineering, Faculty of Engineering, Shahid Chamran University, Ahvaz, Iran S. S.Mortazavi, M. Saniei, M. Khalifeh
C3S.09	Designing Optimal Bidding Curve in Electricity Pay-as-Bid Markets "%, - Javid Khorasani, Khorasan Institute of Higher Education Mashhad, Iran Habib Rajabi Mashhadi, Ferdowsi University of Mashhad Mashhad, Iran
C3S.16	A Protection Scheme for Series Capacitor Compensated Transmission Lines that Uses DC Component of Line Current "% - ' Abbas Ali Razavi, School of Electrical and Computer Engineering Shiraz University, Shiraz, Iran Haidar Samet
C3S.17	A Fast Online Load Shedding Method for Mitigating FIDVR Based On Novel Stability Index "% Arash Mahari, Faculty of Electrical and Computer Engineering University of Tabriz, Tabriz, Iran Heresh Seyedi
C3S.18	A New Traveling Wave Fault Location Algorithm in Series Compensated Transmission Line "% \$) Moien Abedini, Department of Electrical engineering, university of Tehran, Tehran, Iran Abbas Hasani, Amir Hosein Hajbabaei, Vahid Khaligh

Poster Session (Power Engineering)

Room: Room S C3S.19 A New Protection Scheme for Stator Faults in Synchronous Generators "% %% Pouya Mahdavipour Vahdati, Iran University of Science and Technolog, Tehran, Iran Arash Arjmandi, K.N.Toosi University, Tehran, Iran Heresh Seyedi, University of Tabriz, Tabriz, Iran Soheil Moradi, Shahid Madani University, Tabriz, Iran C3S.20 **High Frequency Components of Feeder Current as Diagnostic Toolto Study Contamination Conditions of** Outdoor Insulators in Power Distribution Networks "% % MohamadAli Amini, Power Quality Research Group Yazd University Yazd, Iran AliReza Sedighi Anaraki Mohamad Taghi Sadeghi, Yazd University, Yazd, IRAN

Optical Communications II

Room: Room B

Chairs: Sadegh Abbasi, Iran Telecommunication Research Center

Mohammad Molavi, Ferdowsi University of Mashhad

C4B.2 Effect of Pump Power on Gain and Saturation of

Double-Clad Fiber Amplifiers "% &(

Maryam Ilchi-Ghazaani, Physics Department, Amirkabir

University of Technology, Tehran, Iran Parviz Parvin, Sajjad Mohammadian

Reza Poozesh, Fiber group, Iranian National Center for Laser

Science and Technology, Tehran, Iran

Kamran Hejaz

C4B.3 Controlling the Coupling Ratio of the Plasmonic

Directional Couplers by SPM and XPM Nonlinear Effects "% &,

N. Nozhat, Faculty of Electrical Engineering, Shiraz University of

Technology, Shiraz, Iran

N. Granpayeh, Faculty of Electrical and Computer Engineering,

K. N. Toosi University of Technology, Tehran, Iran

C4B.5 Hybrid Metal-Insulator Plasmonic Slab Directional

Coupler"%' &

Mahmoud Talafi Noghani, School of Electrical Engineering Iran

University of Science and Technology, Tehran, Iran

Mohammad H. Vadjed Samiei

Artificial Intelligence and Machine Learning

Room: Room D

Chairs: Reza Monsefi, Ferdowsi University of Mashhad

Mohammad B. Naghibi-Sistani, Ferdowsi University of Mashhad

C4D.2 A hybrid Gravitational Search Algorithm-Genetic

Algorithm for neural network training "% ' +

SaeideSheikhpour, Faculty of Electrical Engineering, University

of Birjand

MahdiehSabouri, Seyed-Hamid Zahiri

C4D.6 Learning Low-dimensional Subspaces via Sequential

Subspace Fitting "% (&

Mostafa Sadeghi, Electrical Engineering Department, Sharif

University of Technology, Tehran, Iran Mohsen Joneidi, H. B. Golestani

Distributed Generation IV

Room: Room F

Chairs: Mahdi Banejad, Shahrood University

Pedjman Pourmohamadiyan, Ferdowsi University of Mashhad

C4F.2 Design and Control of Fully Parallel Embedded Z **Source Inverters Based Flexible Photovoltaic Systems** for Grid Power Quality Improvement under Distorted Condition "% (+

Saeid Khani, East Azarbayjan Electric Power Distribution

Company, Tabriz, Iran

Leila Mohammadian, Shabestar branch, Islamic Azad University,

Shabestar, Iran

Seyed Hosseini, Faculty of Electrical and Computer

Engineering, University of Tabriz, Iran

Saeid Ghasemzadeh

C4F.3 An Economic Study to Investigate the Impacts of **Energy Policy Changes on Renewable Contribution in** Power Systems "%)(

Mohammad Hassan Amirioun, Center of Excellence for Power System Automation and Operation, Department of Electrical Engineering, Iran University of Science and Technology, Tehran,

Iran

Hajir Pourbabak, Ahad Kazemi

C4F.4 Impacts of Strategic Behavior of Wind Power Plants on **Electricity Markets: A Supply Function Equilibrium**

Approach "% * \$

Mohsen Banaei, Ferdowsi University of Mashhad Majid Oloomi Buygi

C4F.5 **How Wind Power Plants Can Affect Electricity Markets** by gaming on their generation power3 "% **

Mohsen Banaei, Ferdowsi University of Mashhad

Majid Oloomi Buygi

Power Quality and FACTS

Room:	Room G
Chairs:	Mohammad Reza Aghaebrahimi, University of Birjand Reza Ghazi, Ferdowsi University of Mashhad
C4G.2	Two-Area Frequency Control in Overloaded Conditions by Using HVDC Transmission "% +& Zahra Khatami, Amirkabir University of Technology, Electrical Engineering Department
C4G.3	Mehrdad Abedi, G. B. Gharehpetian Compensating of voltage flicker and disturbance using Dynamic Voltage Restorer based on matrix converter ++ Hojjat Daghani, Ferdowsi university of mashhad, mashhad, iran Reza Ghazi, Hadi Ghasemabadi

Bang-Gap Circuits and DC-DC Converters

Room: Room H

Chairs: Ali Medi, Sharif University of Technology

Majid Baghaei-Nejad, Hakim Sabzevari University

Invited Talk Majid Baghaei-Nejad, Hakim Sabzevari University

C4H.1 A Fully CMOS Low Voltage Bandgap Reference without

Resistors "%, '

Rasoul Dehghani, Electrical and Computer Engineering Department, Isfahan University of Technology, Isfahan, Iran

C4H.3 A Low Input Voltage DC-DC Converter with Zero Current

Detection Circuit and Delay-Based Timing Control for

Thermoelectric Energy Harvesting "%, +

M. J. Dezyani, H. Ghafoori Fard, E.E. Department, Amirkabir

University of Technology, Tehran, Iran

S. Sheikhaei, School of Electrical & Computer Engineering College of Engineering, University of Tehran, Tehran, Iran

Multiagent Systems

Room: Room J

Chairs: Hamid Khaloozadeh, K. N. Toosi University of Technology

Mohammad-R. Akbarzadeh-T., Ferdowsi University of Mashhad

Invited Talk M.-R. Akbarzadeh-T., Ferdowsi University Of Mashhad

Nanotechnology, Nanomedicine, ... Nanointelligence?" P1C

C4J.1 Robust Cooperative Control In The Presence Of

Obstacles "% - %

A. Aghaeeyan, Department of Electrical Engineering AmirKabir University of Technology, Tehran, Iran

F. Abdollahi, H. A. Talebi

C4J.3 Synchronized Coherent Swarming of a Collaborative

Multi Agent System in Presence of Disturbance "% - +

Reihane Rahimi, Amirkabir University of Technology

Farzaneh Abdollahi