

2014 1st Australian Microwave Symposium

(AMS 2014)

**Melbourne, Australia
26-27 June 2014**



**IEEE Catalog Number: CFP14AWF-POD
ISBN: 978-1-4799-5542-8**

Table of Content

Paper ID	Paper Title	Author	Affiliation	Page(s)
AMS-01	0.1- μm GaAs PHEMT W-Band Low Noise Amplifier MMIC using Coplanar Waveguide Technology	Bessemoulin, A.	Macom	1 - 2
		Mahon, S.J.	Macom	
		McCulloch, M.G.	Macom	
		Tarazi, J.	Macom	
AMS-02	Microwave photonic link characterization for phased array radar	Rai, J. K.	Amity School of Engineering and Technology	3 - 4
		Mathur, M.	Bharat Electronics	
		Sridhar, N.	Bharat Electronics	
AMS-03	A Feasible Detection Technique for Chipless RFID Systems based on Likelihood	Divarathne, C.	Monash University	5 - 6
		Karmakar, N.C.	Monash University	
AMS-04	Thermal Modelling of Multifinger GaAs/GaN FETs using SPICE	Mahon, S.J.	Macom	7 - 8
		Schwitter, B.K.	Macom	
		Parker, A.E.	Macquarie University	
		Tarazi, J.	Macquarie University/Macom	
AMS-05	State-Space Analysis of Left-Handed	Milford, G.N.	University of New South Wales, ADFA	9 - 10
AMS-06	First- and Second-Order Meshless Radial Point Interpolation Methods in Electromagnetics	Fumeaux, C.	The University of Adelaide	11 - 12
		Kaufmann, T.	The University of Adelaide	
		Shaterian, Z.	The University of Adelaide	
AMS-07	Compact Single-Layer In-Phase Power Divider Employing Microstrip to Slotline Transitions	Abbosh, A.M.	The University of Queensland	13 - 14
		Ahmed, U.T.	The University of Queensland	
AMS-08	Reconfigurable Software Defined Radar for Medical Imaging	Abbosh, A.M.	The University of Queensland	15 - 16
		Bialkowski, K.S.	The University of Queensland	
		Marimuthu, J.	The University of Queensland	
AMS-09	Assessing the Effects of Field Plates in an AlGaIn/GaN-on-SiC HEMT Model Extraction	Mahon, S.J.	Macom	17 - 18
		Schwitter, B.K.	Macom	
		Tarazi, J.	Macom	
		Parker, A.E.	Macquarie University	
AMS-10	Application of Metamaterial-Inspired Resonators in Compact Microwave Displacement Sensors	Abbott, D.	The University of Adelaide	19 - 20
		Fumeaux, C.	The University of Adelaide	
		Horestani, A.K.	The University of Adelaide	
		Shaterian, Z.	The University of Adelaide	

Paper ID	Paper Title	Author	Affiliation	Page(s)
AMS-11	Development of an Experimental Weather Radar	Al-Ashwal, W.A. Gray, D. Viola, M.	University of Adelaide University of Adelaide University of Adelaide	21 - 22
AMS-12	Microwave Imaging System to Provide Portable-low-powered Medical Facility for the Detection of Intracranial Hemorrhage	Abbosh, A.M. Mobashsher, A.T.	The University of Queensland The University of Queensland	23 - 24
AMS-13	RF Modulator Design for a Low Level Pilot Sub-System	Redoute, J.-M. Ahmed, S. Eslampanah, R. Faulkner, M. Pourakbar, M.	Monash University Victoria University Victoria University Victoria University Victoria University	25 - 26
AMS-14	Improved Filter Tuning in the Time Domain	Burger, S. Hoeft, M.	Delta Gamma Consultant University of Kiel	27 - 28
AMS-15	An SDR Duplex Filter in SOI Technology	Sjoland, H. Tormanen, M. Eslampanah, R. Faulkner, M. Pourakbar, M.	Lund University Lund University Victoria University Victoria University Victoria University	29 - 30
AMS-16	An Active 38 GHz Differential Power Divider for Automotive Radar Systems in 65-nm CMOS	Duong, H.T. Huynh, A.T. Le, H.V. Skafidas, E.	The University of Melbourne The University of Melbourne The University of Melbourne The University of Melbourne	31 - 32
AMS-17	Design of 120:1 Frequency Divider for a 12.6 GHz Phase-Locked Loop	Duong, H.T. Huynh, A.T. Le, H.V. Skafidas, E.	The University of Melbourne The University of Melbourne The University of Melbourne The University of Melbourne	33 - 34
AMS-18	Effects of Antenna Characteristics on Performance of Microwave Based System Designed for Early Stage Congestive Heart Failure Detection	Ahdi Rezaeieh, S. Abbosh, A.M. Bialkowski, K.S.	The University of Queensland The University of Queensland The University of Queensland	35 - 36
AMS-19	Linearity of a Ka Band SiGe Receiver	Hall, L.T. Milner, L.E. Parker, M.E. Mahon, S.J. McCulloch, M.G.	DSTO DSTO DSTO Macom Macom	37 - 38

Paper ID	Paper Title	Author	Affiliation	Page(s)
AMS-20	Proposal for a SIW Phase-Inverter	Eccleston, K.W.	University of Canterbury	39 - 40
AMS-21	On the Usage of Diffraction effect for Chipless RFID Systems	Karmakar, N.C. Zomorodi, M.	Monash University Monash University	41 - 42
AMS-22	An E-band Transceiver with 5GHz IF bandwidth	Dyadyuk, V. Shen, M. Stokes, L.	CSIRO CSIRO CSIRO	43 - 44
AMS-23	Target Imaging with Bistatic Doppler Radar To	Heading, E. Tran, H.-T.	DSTO DSTO	45 - 46
AMS-24	Receiver Systems for Square Kilometre Array S	Bowen, M.A. Gough, R.G. McKinnon, M.M.	CSIRO CSIRO CSIRO	47 - 48
AMS-25	Accurate Simulation of the Frequency Response of Millimetre-Wave SiGe Amplifiers	Hall, L.T. Milner, L.E. Parker, M.E.	DSTO DSTO DSTO	49 - 50