

**TimeTable**

**The 3rd Conference on**

**Millimeter Wave & Terahertz Technologies**

**30 DEC 2014 - 1 JAN 2015**

**Amirkabir Universityof Technology,Tehran,Iran**

SPONSORS







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Conference Committees

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Conference Committees

* Workshop I

**Substrate Integrated Circuits (SICs) – A Paradigm for Future GHz and THz Electronic and Photonic System**

Ke Wu, Professor, École Polytechnique de Montréal,Canada

***Thursday 10:00– 12:00***

* Workshop II

**Millimeter-wave and Terahertz CMOS Design**

Minoru Fujishima, Professor, Hiroshima University,Japan

***Tuesday 10:30 – 12:30***

* Workshop III

**Basics of Microwave, Millimeter-wave and Terahertz Front-end and Chip design**

Mohammad Madihian, Adjunct Professor, Drexel University

***Tuesday 8:30 – 10:30***

* Workshop IV

**60 GHz CMOS Power Amplifiers**

Kambiz Moez, Associate Professor, University of Alberta, Canada

***Tuesday 14:00 – 16:00***

* Workshop V

**Instrumentation and Measurement Techniques in Terahertz Frequency Range**

Mohammad Neshat, Assistant Professor, University of Tehran

***Tuesday 8:30 – 10:30***

* Workshop VI

**Analysis and characterization of quasicrystalline arrays of metallic nano particles in plasmonic applications**

Farhad Azadi Namin, Assistant Professor, Amirkabir University of Technology

***Tuesday 16:00 – 18:00***

* Opening

Wednesday

Dec. 31 2014

8:00– 10:30

* Break

10:30–11:00

* Keynote I – Prof. Ke Wu

11:00–12:00

* Lunch Break

12:00–14:00

* Session1 : Terahertz generation

14:00– 16:00

* Break

16:00–16:30

* Session2 : Plasmonics

16:30– 18:30

* Keynote II - Prof. Minoru Fujishima

Thursday

Jan. 1 2015

8:30– 9:30

* Break

9:30–10:00

* Session3 : millimeter waves

10:00– 12:00

* Lunch Break

12:00–14:00

* Session4 : Terahertz technologies

14:00– 15:40

* Session5 : Terahertz Applications

14:00– 15:40

* Break

15:40–16:00

* Closing

16:00– 17:00

Session Chairs

Session1 (Wed.14:00–16:00)

**Terahertz Generation**

**Dr.Granpayeh**

**Prof. Vahid Ahmadi**

**Dr. Neshat**

Papers

1. **MMWaTT-1091 Investigation of Radiation Mechanism in THz Generation based on Laser-Induced Plasma in Air**

A. Yousef-Zamanian, M. Neshat

14:00–14:20

1. **MMWaTT-1122 Modeling and Design of an Optimum Transmission Metallic Grating for Efficient Excitation …**

M. T. Mazraehno, M. Shahabadi, J. Rashed-Mohassel

14:20 – 14:40

1. **MMWaTT-1059 Accurate Calculation of Excited Photocurrent in Terahertz Photoconductive Antennas by Using Energy Balance …**

R. Emadi, N. Barani, A. Amirhosseini, R. Safian

14:40–15:00

1. **MMWaTT-1113 Impact of Absorption Depth on the Characteristics of Pulses Generated by a Ti:Sapphire …**

M. Rezvani, M. Shahabadi

15:00–15:20

1. **MMWaTT-1076 Modeling and Designing an Unbiased CW Terahertz Photomixer Emitters**

M. J. Mohammad-Zamani, M.K. Moravvej-Farshi, M. Neshat

15:20–15:40

1. **MMWaTT-1121 Modeling of a Frequency Comb Source forTerahertz Generation**

M.H. Bahramimanesh, A.S. Nooramin, M. Shahabadi

15:40–16:00

Session Chairs

Session2 (Wed.16:30–18:30)

**Plasmonics**

**Prof. Rashed Mohassel**

**Prof. Moravvej Farshi**

**Dr. Azadi Namin**

Papers

1. **MMWaTT-1119Subwavelength Plasmonic Band-Pass Filter Based on Metal-Insulator-Metal Structure with Elliptic Res…**

A. Dolatabady, N. Granpayeh

16:30–16:50

1. **MMWaTT-1117A Matrix Model Based on the Optical Theorem for Analyzing the Scattering of Nanoparticles**

F. Armin, M.M. Mirsalehi

16:50–17:10

1. **MMWaTT-1123Modeling of Bend Discontinuity in Plasmonic and Spoof Plasmonic Waveguides**

Y. Rahbarihagh, J. Rashed-Mohassel, M. Shahabadi

17:10–17:30

1. **MMWaTT-1079Sensitivity analysis of high group index corrugated slow light waveguide for using in optical applications**

S. Hosseini, K. Jamshidi

17:30–17:50

1. **MMWaTT-1074Switchable Hyperbolic Optical Metamaterial based on Kerr Nonlinear Effect**

M. Shoaei, M.K. Moravvej-Farshi

17:50–18:10

1. **MMWaTT-1105Optical Beam-Steering Using a Hybrid Plasmonic Rotman Lens**

B. Ashrafi Nia, L. Yousefi, M. Shahabadi

18:10–18:30

Session Chairs

Session3 (Thu.10:00–12:00)

**Millimeter Waves**

**Prof. Reza Faraji-Dana**

**Prof. Oraizi**

**Dr. Moradi**

Papers

1. **MMWaTT-1086 Indoor Ultrawideband Propagation Modelling Using Chebyshev Interpolation in 60 GHz Band Based on Ray …**

M. Boozari, A.A. Shishegar

10:00–10:20

1. **MMWaTT-1092 Closed Form Representation for Millimeter WavePropagation in a Rectangular Room**

M.H. Sadrearhami, A.A. Shishegar

10:20–10:40

1. **MMWaTT-1103 Design, Construction and Measurement of a millimeter-wave filter with 40-60 GHz pass-band**

V.R. Bagheri, K. M.-Aghdam., M. Mansouree, R. Faraji-Dana

10:40–11:00

1. **MMWaTT-1071 Millimeterwave Micro-coax Development UsingSimplified 3D Fabrication Process**

N. Vahabisani, M. Daneshmand

11:00–11:20

1. **MMWaTT-1106 New wideband fixed phase shifter with Air holesintegrated in substrate**

B. khorasani, F.Geran

11:20–11:40

1. **MMWaTT-1100 Scattering Analyze of Human Body Modeled by NURBS Surfaces in MM-wave Band**

F. Mokhtari-Koushyar, A.A. Shishegar

11:40–12:00

Session Chairs

Session4 (Thu.14:00–15:40)

**Terahertz Technologies**

**Prof. Tavakoli**

**Dr. Shishegar**

**Dr. Ahmadi-Boroujeni**

Papers

1. **MMWaTT-1067 Field Modeling and Analysis of Terahertz Transistors**

A. Afshani, A. Abdipour, R. Mirzavand

14:00–14:20

1. **MMWaTT-1118 Nonlinear Transmission-Line Model of an FET Terahertz Detector for Arbitrary Gate Voltage**

E. Javadi, N. Masoumi, M. Neshat, M. Shahabadi

14:20–14:40

1. **MMWaTT-1054 RF Modeling of p-n-p-n Double-Gate Tunneling Field-Effect Transistors**

S. Marjani, S.E. Hosseini

14:40–15:00

1. **MMWaTT-1120 Microfluidic Terahertz Sensor Based on an Array ofParallel-Plate Resonators**

H. Neshasteh, A. Mataji-Kojouri, A. Soltani, M Shahabadi

15:00–15:20

1. **MMWaTT-1101 Analysis and Design of a Microprobe for Near-field Scanning Terahertz Microscopy**

A. Mohebbi-Kolvanagh, M. Neshat

15:20–15:40

Session Chairs

Session5 (Thu.14:00–15:40)

**Terahertz Applications**

**Prof. Kamarei**

**Prof. Forouraghi**

**Dr. Neshati**

Papers

1. **MMWaTT-1073 A Switchable THz Perfect Absorber Using Graphene-Based Metamaterials**

M. Faraji, M.K. Moravvej-Farshi, L. Yousefi

14:00–14:20

1. **MMWaTT-1057Graphene-Based Archimedean Spiral THz Antenna**

F. Zangeneh-Nejad, R. Safian

14:20–14:40

1. **MMWaTT-1066Compact Low power geraphene-based Y-branch THz switch**

M. Yarahmadi, M.K. Moravvej-Farshi, L. Yousefi

14:40–15:00

1. **MMWaTT-1090Low Profile Modified H-Plane SIW Horn Antenna with Improved Directivity**

E. Rahimi, M.H. Neshati

15:00–15:20

1. **MMWaTT-1083Optical Chirality Enhancement in Twisted Metamaterials**

A.N. Askarpour, Y. Zhao, Andrea Alù

15:20–15:40

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| Thu. | | | | | Wed. | | |  |
| Keynote II  ***Prof. M. Fujishima*** | | | | | Opening | | | 8:30 9:30 |
|  | | | | |  | | | B. |
| MMWaTT-1086  MMWaTT-1092  MMWaTT-1103  MMWaTT-1071  MMWaTT-1106  MMWaTT-1000 | | | Session 3 | | Keynote I  ***Prof. Ke Wu*** | | | 10:00 12:00 |
|  | | | | |  | | | L.  B. |
| MMWaTT-1091  MMWaTT-1122  MMWaTT-1059  MMWaTT-1113  MMWaTT-1076  MMWaTT-1121 | Session 5 | MMWaTT-1067  MMWaTT-1118  MMWaTT-1054  MMWaTT-1120  MMWaTT-1101 | | Session 4 | MMWaTT-1091  MMWaTT-1122  MMWaTT-1059  MMWaTT-1113  MMWaTT-1076  MMWaTT-1121 | | Session 1 | 14:00 16:00 |
|  | | | | |  | | | B. |
|  | | | | | MMWaTT-1119  MMWaTT-1117  MMWaTT-1123  MMWaTT-1079  MMWaTT-1074  MMWaTT-1105 | Session 2 | | 16:0018:30 |

Conference Sessions Matrix

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| Thu. | | | Tue. | | | |  |
|  | | | Instrumentation and Measurement Tech. in THz  ***Dr. M. Neshat*** | Workshop V | Microwave, MM-wave and THz Front-end  ***Prof. M.Madihian*** | Workshop III | 8:30 10:30 |
| Substrate Integrated Circuits  ***Prof. Ke Wu*** | Workshop I | 10:00 12:00 | MM-wave and THz CMOS Design  ***Prof. M. Fujishima*** | | | Workshop II | 10:30 12:30 |
|  | | | 60 GHz CMOS Power Amp  ***Dr. K. Moez*** | | | Workshop IV | 14:00 16:00 |
|  | | | Analysis and characterization of quasicrystalline arrays of metallic nano particles in plasmonic applications  ***Dr. F. Azadi Namin*** | | | Workshop VI | 16:00 18:30 |

Workshops Matrix