Wednesday, December 19		
8:30-10:00		**Opening and Keynote Speaker** Session Chairs: Prof. Granpayeh Prof. Mohammadi Keynote speaker: Prof. Shahabadi
10:30-12:30		**Session 1A: Antenna, 5G Applications** Session Chairs: Prof. Hodjat-kashani Prof. Rashed-Mohassel Prof. Tavakoli
Antenna, 5G Applications	10:30-11:00	(Invited Talk) Dirac Leaky Wave Antennas
	11:00-11:20	Novel Planar Wideband Antenna Integrated with Compact Flat Reflector for Millimeter-wave Communications
	11:20-11:40	A 5G Multibeam Antenna Including Rotman Lens and Slot Array Antenna
	11:40-12:00	Design of a Circularly Polarized SIW slot Antenna for 5G Base stations
	12:00-12:20	Design of a Millimeter-Wave Frequency-Scanning Slot Array Antenna in SIW Technology
10:30-12:30		**Session1B: Terahertz Technologies** Session Chairs: Prof. Shahabadi Dr. Moradi Dr. Neshat
Terahertz Technologies	10:30-10:50	Switchable abnormal THz wave reflecor based on molybdenum disulfide (MoS2)
	10:50-11:10	Compact THz waveguide filter based on periodic dielectric-gold rings
	11:10-11:30	Improved the CW THz Radiation by Unbiased Antennaless THz Emitters Combined of Recessed Asymmetric MSM with Dis-Similar Schottky Barriers
	11:30-11:50	Antenna coupled GaN-based pulsed THz emitter array, enhanced with nono-slit plasmonic waveguide modes
	11:50-12:10	Design of a Pulsed-Terahertz Photoconductive Antenna for Spectroscopy Applications
	12:10-12:30	Full wave Modeling and Analysis of Plasmonic HEMT performance
14:00-15:40		**Session 2: Modeling and Numerical Techniques** Session Chairs: Prof. Faraji-Dana Dr. Shishegar Dr. Sarraf-Shirazi
Modeling and	14:00-14:20	Millimeter-Wave Imaging based on MIMO Antenna Array
	14:20-14:40	Exploiting the Ewald method for calculating the Tmatrix of arbitrary periodic arrays

	14:40-15:00	Analysis, Synthesis and Characterization of Metasurfaces Based on Novel Tensors
	15:00-15:20	Application of Differential Global Surface Impedance (DGSI) Model in the Analysis of Plasmonic circuits
	15:20-15:40	On the Possibility of Improving the Average Chirality and Dissymmetry Factor Using Periodic Structures
16:00 – 17:40		**Session 3: MM-Wave Circuits and Systems** Session Chairs: Prof. Farzaneh Dr. Daneshmand Dr. Mohammad-Taheri
MM-Wave Circuits and Systems	16:00-16:20	Joint Pilot and Data Power Control in Cell-Fee Massive MIMO System
	16:20-16:40	60 GHz Massive MIMO Transceiver Design for Base Station of Radio over Fiber System
	16:40-17:00	A Millimeter-wave High Selective Low pass Filter in Suspended Stripline Technology
	17:00-17:20	Rat-Race Power Divider/Combiner for 5G Application Using Substrate Integrated Gap Waveguide
	17:20-17:40	Frugal Sampling Method for Analysis of Modulating Pulses in Nonlinear - loaded Transmission Lines at mm - wave Frequency

Thursday, December 20		
8:30-10:40		**Session 4: Optics and Plasmonics** Session Chairs: Prof. Ahmadi Prof. Granpayeh Dr. Khavasi
Optics and Plasmonics	8:30-9:00	(Invited Talk) Recent advances in spatial analog optical computing
	9:00-9:20	Comparing Nonlinearity Effects of SMF and NZ-DSF fibers on the Performance of Optical Coherent Transmission Systems
	9:20-9:40	Photothermal Heating Using a Near-Field Plasmonic Probe, Application in NFO-CVD
	9:40-10:00	Sinusoidally Modulated Hybrid Plasmonic Leaky Wave Optical Antenna
	10:00-10:20	New Approaches to Design and Realization of Dielectric GRIN Flat Lenses
	10:20-10:40	Evanescent-to-Propagating Wave Conversion Using Plasmonic Metasurfaces
11:00-12:00		**Closing Session**