



Editor-in-Chief: A Message

Dear members and readers,

It gives me great pleasure to present you the second issue in 2019, December issue, of the *Microwave Review* journal which contains five research papers, as well as reports of the international conferences organized in cooperation with Serbia and Montenegro IEEE MTT-S Chapter and National Society for Microwave Technique, Technologies and Systems.

A part of this issue relied on a call to authors of selected papers, which had presented and appeared in the proceedings of 6th International Conference on Electrical, Electronic and Computing Engineering - IcETRAN 2019, to submit extended versions of their conference papers for publication in the *Microwave Review* journal. The selection of the invited papers for this issue has been done according to scores of the review process and opinion of the session chairs. The following paragraphs provide an overview of these two papers:

Corona is the partial discharge that occurs around the wires and edges in inhomogeneous electric field. In power systems, the corona is the unwanted effect caused by overvoltages. In the paper entitled ***The Influence of Corona on the Lightning Surge Propagation Along Transmission Lines*** authors numerically simulated the propagation of the overvoltage wave due to negative lightning along the transmission line. The effect of the corona is modelled by the drift-diffusion-reaction equations for the electrons, the positive and the negative ions. The authors are Milan Ignjatović, Jovan Cvetić, and Dragan Pavlović from School of Electrical Engineering, University of Belgrade, Serbia.

EM Modelling of Microstrip T-Junction with an Open Stub Printed over a Dielectric Cylinder is the title of the paper written by authors from Serbia: Tomislav Milošević and Dušan Nešić. This paper presents electromagnetic modelling of microstrip T-junction with open stub printed over a dielectric cylinder. The paper investigates the stability of simulation results with respect to various parameters. The purpose of this comprehensive investigation was to establish the optimum calculation parameters for the case of the particular resonator structure.

There is a need of uninterrupted data transfers on-board trains, cars, aircrafts etc. Therefore, multimedia data transfer with high speed, requires wide band width and dual polarized or circular polarized pattern for the antenna used. High gain throughout the bandwidth is also another important criterion. The capacitively coupled shorted patch microstrip antenna proposed in the third paper ***Dual Band Polarization Agile Compact Planar Antenna for Enhanced Bandwidth and Gain*** can fulfill all these criteria unlike other printed radiators and it is ideally suited for specific application in GSM base stations and also as vehicle mounted antennas. Additionally this antenna can be used as GPS locator also. Moreover, this kind of antenna is useful for large scale production as the fabrication cost is minimal. The authors are Ayona Chakraborty, Samik Chakraborty, and Bhaskar Gupta from India.

In the fourth paper entitled ***A Planar UWB Reconfigurable Face-shaped Monopole Antenna with Dual Band Rejection for WIMAX/WLAN***, a face-like reconfigurable antenna with a printed slot and dual band notch performances and very simple configuration has been introduced for UWB applications. The performance of the notched frequency band of the proposed antenna can be controlled by two switches on the slot and adding the parasitic patch. Characteristics such as compact size, wide operating bandwidth and good radiation properties are other intriguing features of the proposed antenna. The paper is written by Sedighe Saghayei, Pejman Rezaei, and Hamed Nimehvari Varcheh from Iran.

The last paper selected for publication in this issue is entitled *The Impact of the Most Common Assumptions when Modelling SDN-based Mobile Networks*. It is written by Strahil Panev and Pero Latkoski from North Macedonia. Authors discuss and evaluate the impact of the most commonly used assumptions when mathematically modelling the performance of SDN-based mobile networks. Using queuing theory, authors model and quantify the impact of the following assumptions: load independent service rate, and limited buffer size. The results show that considering a limited buffer significantly impacts the accuracy of the modelling, while at load dependent service rate we notice visible service time deterioration at high loads.

Reports of two international events, ICEST and TELSIS, organized in 2019 are given here.

Report of ICEST 2019 - Conference on Information, Communication and Energy Systems and Technologies held in Ohrid, North Macedonia, on June 2019 is written by Prof. Dr. Mitko Kostov, ICEST 2019 Chair.

The fourteenth edition of TELSIS conference, under the name, International Conference on Advanced Technologies, Systems and Services in Telecommunications was held at the Faculty of Electronic Engineering, University of Niš, Serbia from October 23rd to 25th, 2019. Report of TELSIS Conference is given by Dr. Tijana Dimitrijević, Dr. Biljana Stošić, and Assist. Prof. Zoran Stanković on behalf of the Organizing Committee; Prof. Dr. Nebojša Dončov on behalf of the Technical Program Committee, and Conference General Chair, Prof. Dr. Bratislav Milovanović.

Assist. Prof. Zlatica Marinković, chair of the IEEE MTT-S Chapter of Serbia and Montenegro, gives a report about chapter activities in 2019.

In 2013, the Society for Microwave Technique, Technology and Systems (MTTS) established an annual award "Aleksandar Marinčić" for the best scientific contribution in the fields within the scope of the Society activities. The award is named after the Academician Prof. Aleksandar Marinčić, one of the founders of the Society and a great scientist in the field of microwaves not only in Serbia but also abroad. "Aleksandar Marinčić" Award for the best contribution in 2018 was given to Norbert Cselyuszka, Žarko Šakotić, Goran Kitić, Vesna Crnojević-Bengin and Nikolina Janković for the contribution "Novel Dual-band Band-Pass Filters Based on Surface Plasmon Polariton-like Propagation Induced by Structural Dispersion of Substrate Integrated Waveguide", published in Scientific Reports, 8, Article number: 8332 (2018).

All involved people in this journal: Editor-in-Chief, Associate Editor and reviewers contribute as volunteers. Selection of submitted papers for publication in journal is a very hard work. There may be a phase of high load where reviewers cannot find time to work on papers, and because of that a processing time may take several months.

I would like to thank all valued anonymous reviewers who were able to engage with this journal in 2019, and to show my appreciation for the time and effort they have spent on evaluating manuscripts submitted to Microwave Review journal. Their role as a reviewer is a very important contribution to the success of the journal.

I wish you a Merry Christmas and a Happy and Successful New Year 2020. I hope it will bring you happiness and smile in all aspects of your lives.

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