



Press-Release

CST University Publication Award 2016: Winners Announced

Darmstadt, Germany, December 22, 2016– Computer Simulation Technology AG (CST) has announced the winners of the CST® University Publication Award 2016, an annual prize given to university institutes and researchers for published papers involving applications of electromagnetic simulation.

The CST University Publication Award recognizes the importance of work from university researchers and academics, and grants winners extensions and upgrades to their CST STUDIO SUITE® installations.

For papers to be considered in the award, they must meet three conditions: they must be authored or co-authored by university researchers, they must have been published either in scientific journals or conference proceedings, and the numerical results must be entirely or partly obtained through simulations using CST software.

Submissions are evaluated on a number of criteria, including originality of application and theory, clarity of presentation, and the skillful use of CST software. A special award is also given for short papers, of four pages or less, to acknowledge the importance of short conference papers in promoting practical applications of simulation.

“We thank all participants for sending their work for consideration,” said Dr. Martin Timm, Director of Global Marketing, CST. *“The range of high quality work we had to choose from this year is a testament to the importance of continuing to support research by universities and their students.”*

The following papers have been selected to receive the CST® University Publication Award 2016 and are listed in no particular order:

- A Reconfigurable Partially Reflective Surface (PRS) Antenna for Beam Steering
Lu-Yang Ji, Y. Jay Guo, Pei-Yuan Qin, Shu-Xi Gong, and Raj Mittra
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, Vol 63, pp 2387 – 2395



- Exploiting the dispersion of the double-negative-index fishnet metamaterial to create a broadband low-profile metallic lens
B. Orazbayev, V. Pacheco-Peña, M. Beruete and M. Navarro-Cía
OPTICS EXPRESS Vol 23 No. 7 pp. 8555-8564

- Portable Wideband Microwave Imaging System for Intracranial Hemorrhage Detection Using Improved Back-projection Algorithm with Model of Effective Head Permittivity
Ahmed Toaha Mobashsher, A. Mahmoud & A. M. Abbosh
Nature, Scientific Reports 6, 10.1038/srep20459

- Diagnostics of Plasma Processes based on Parallelized Spatially Resolved In-Situ Reflection Measurements
Christian Schulz, Jan Runkel, Moritz Oberberg, Peter Awakowicz, and Ilona Rolfes
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, Vol. 64 Iss. 2, pp. 616 – 623

Short Paper Award 2016

- Corporate-Fed Planar 60 GHz Slot Array Made of Three Unconnected Metal Layers Using AMC pin surface for the Gap Waveguide
Abbas Vosoogh and Per-Simon Kildal
IEEE Antennas and Wireless Propagation Letters

More information on our university program and the upcoming University Publication Award 2017 can be found at the CST corporate website: <https://www.cst.com/academia>.

About CST

Founded in 1992, CST offers the market's widest range of 3D electromagnetic field simulation tools through a global network of sales and support staff and representatives. CST develops CST STUDIO SUITE, a package of high-performance software for the simulation of electromagnetic fields in all frequency bands, and also sells and supports complementary third-party products. Its success is based on a combination of leading edge technology, a user-friendly interface and knowledgeable support staff. CST's customers are market leaders in industries as



diverse as telecommunications, defense, automotive, electronics and healthcare. Today, the company enjoys a leading position in the high-frequency 3D EM simulation market and employs 300 sales, development, and support personnel around the world.

CST STUDIO SUITE is the culmination of many years of research and development into the most accurate and efficient computational solutions for electromagnetic designs. From static to optical, and from the nanoscale to the electrically large, CST STUDIO SUITE includes tools for the design, simulation and optimization of a wide range of devices. Analysis is not limited to pure EM, but can also include thermal and mechanical effects and circuit simulation. CST STUDIO SUITE can offer considerable product to market advantages such as shorter development cycles, virtual prototyping before physical trials, and optimization instead of experimentation.

Further information about CST is available on the web at <https://www.cst.com>.

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