

Hristomir Yordanov, FDIBA



Titel: Dr.

Institution: FDIBA, TU-Sofia

Bereich: Hochfrequenztechnik

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Derzeitige Funktion:

Prodekan Forschung

Arbeitsgebiet:

Koordination von Forschungsprojekte, Förderung

Promotionsberechtigt:

ja

nein

Forschungskompetenz:

Modellierung von elektromagnetischen Systemen mit verteilter Komponente, Antennen, Aktive Systeme, HF Signalverarbeitung, Drahtlose Kommunikation, Telemetrik, Sensorik

Forschungshintergrund:

Wissenschaftlicher Mitarbeiter an der TU München

Marie Curie Stipendium an der TU-Sofia

Fulbright Visiting Scholar an UC Berkeley, CA

Gewünschte Forschungs Kooperationen:

Forschungsthemen:

HF Technik, Antennen, Sensorsystemen

Bereits bestehende Kooperationen:

Koordinator seitens FDIBA von Projekten im KI, Robotik, Gesundheitsmanagement

Ggf. bestehende Förderprogramme:

Marie-Curie fellow, Fulbright Fellow, Erasmus+ Projekt Com.HeNet, Erasmus+ bilateraler

Vertrag mit TU-Kreta, Griechenland

Wunschpartner beim FDIBA-Projekt:

KIT: Prof. Thomas Zwick, Prof. Sebastian Randel

OvGU: Prof. Mesut Gunes

Publikationen (max. 10):

H. Yordanov and I. Topalova, "Neural networks for scattering signal based object recognition," in *The Fourteenth International Conference on Autonomic and Autonomous Systems ICAS 2018, May 2018*, pp. 1–3.

H. Yordanov, V. Kumanov, N. Kumanov, L. Urshev, and B. Vichev, "Calibration techniques for microwave moisture meters," in *2016 XXV International Scientific Conference Electronics (ET)*, Sept 2016, pp. 1–4.

H. Yordanov, V. Poulkov, and P. Russer, "On-chip monolithic integrated antennas using cmos ground supply planes," *IEEE Transactions on Components, Packaging and Manufacturing Technology*, vol. 6, no. 8, pp. 1268–1275, Aug 2016.

H. Yordanov, G. Savov, V. Poulkov, and B. Avdjiiski, "Digital interference in monolithic integrated antennas," in *Proceedings of the 35th European Microwave Conference 2015*, Paris, France, 2015, pp. 1–4.

L. Urshev, N. Koumanov, H. Yordanov, V. Koumanov, and B. Vichev, "Microwave radiometer for early diagnosis of breast cancer," in *Proceedings of the 23rd International Conference Electronics 2014*, Sofia, Bulgaria, 2014, pp. 1–4.

H. Yordanov, A. Mihovska, V. Poulkov, and R. Prasad, *Maximizing Throughput in Chip to Chip Communications*. River Publishers, 2013, book chapter.

H. Yordanov, "Design and prototyping of radiation- and area-efficient monolithic integrated antennas," *International Journal of Reasoning-based Intelligent Systems*, 2013.

J. A. Russer, P. Lugli, M. Bareiss, Y. Kuznetsov, W. Porod, H. Yordanov, and P. Russer, "Si and sige based monolithic integrated antennas for electromagnetic sensors and for wireless communications," in *Silicon Monolithic Integrated Circuits in RF Systems (SiRF)*, 2011 IEEE 11th Topical Meeting on, Jan 2011, pp. 189–192.

P. Russer, N. Fichtner, P. Lugli, W. Porod, J. Russer, and H. Yordanov, "Nanoelectronics-based integrated antennas," *IEEE Microwave Magazine*, vol. 11, no. 7, pp. 58–71, Dec. 2010.

H. Yordanov, M. Ivrlac, P. Russer, and J. Nossek, "Arrays of isotropic radiators – a field-theoretic justification," in *2009 International ITG Workshop on Smart Antennas*, Berlin, Germany, February 2009, pp. 32–35.