

# CURRICULUM VITAE

## ► PERSONAL DATA

Name : INSERRA Daniele  
Date of Birth : 1985/03/01  
Place of Birth : Udine, Italy  
Civil Status : Married  
Sex : Male  
Citizenship : Italian  
Address (in Italy) : via Palladio, 64 – 33058 San Giorgio di Nogaro, Udine (UD)  
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## ► LANGUAGE EFFICIENCY

Italian : native speaker  
English : fluent  
Chinese : good

## ► EDUCATIONAL BACKGROUND

Degree/ Certificate	Institute	Year	Percentage	Major subjects
Doctor's (Ph.D.)	University of Udine, Italy	From 2010 to 2012	/	Telecommunications
Professional examination (licensed engineer)	University of Udine	2009	188/200	Electronic Engineer
Master's (M.Sc.)	University of Udine, Italy	From 2007 to 2009	110/110 cum laude	Electronic Engineer – Specialization: Telecommunications
Bachelor's (B.Sc.)	University of Udine, Italy	From 2004 to 2007	107/110	Electronic Engineer
Technical Institute Diploma	Technical institute "A. Malignani", Udine, Italy	From 1999 to 2004	80/100	Electronic and Telecommunications

## ► EMPLOYMENT HISTORY

- **University of Electronic Science and Technology of China, Chengdu** (full-time contract, from 2015/07 to today): Post-doc position. Research activities on RFID systems, antenna and array design, radiative wireless power transfer within Fresnel/far-field region, mm-wave electromagnetic lens arrays, localization with direction-of-arrival estimation, passive/active microwave absorbers. Contact person: prof. Wen Guangjun (wgj@uestc.edu.cn)
- **Calzavara S.p.a.** (full-time contract, from 2013/01/14 to 2014/08/14): RF electronic, antennas and electromagnetic compatibility designer; LED driving designer; RF and electromagnetic compatibility measurement laboratory leader; other measurement activities, e.g., photometric quantities and thermal measurement activities. Contact person: Eng. Polo Eric (eric.polo@calzavara.it)
- **University of Udine** (full-time contract, from 2009/10/30 to 2009/12/15): researcher; design and development of a RF MIMO testbed for channel measurement and direction of arrival experiments. Contact person: prof. Tonello Andrea (andrea.tonello@aat.com)

## ► PRACTICUM/INTERNSHIP

During Ph.D. I spent about 40 hours in teaching to university students both class lessons and seminars (both Italian and English languages).

## ► ACADEMIC & RESEARCH PUBLICATIONS

### **Projects:**

- [1] 国家自然科学基金青年项目, “基于短时电磁脉冲的远距离高效无线能量传输的发射机关键技术研究”, 61901095, 2020/01-2022/12, 25 万元, 在研, 主持。
- [2] 四川省国际科技创新合作, “高效通信与精确定位应用的平面毫米波电磁透镜阵列关键技术研究”, 2021YFH0133, 2021/4-2023/3, 20 万元, 在研, 主持。
- [3] 电子科技大学 (校级), 博士后基金获资助, “Low cost antenna pattern measurement system for UHF RFID applications”, 2017/7, 5 万元, 已结题, 主持。
- [4] 国家自然科学基金青年项目, “基于柔性介质的微波光机械超材料合成机理及特性研究”, 61701082, 2018/01-2020/12, 25 万元, 已结题, 参加 (总排名 4)。
- [5] 国家自然科学基金青年项目, “汞基电磁超材料特性及其温度感知关键技术研究”, 61601093, 2017/01-2019/12, 19 万元, 已结题, 参加 (总排名 5)。
- [6] 四川省科技厅国际合作项目, “超薄超宽带微波吸波材料关键技术研究”, 18HH0034, 2018/01-2019/12, 20 万元, 已结题, 参加 (总排名 6)。
- [7] 四川省科技计划项目, “微纳腔光机械结构式加速度计关键技术研究”, 2019YFG0120, 2019.01-2020.12, 20 万元, 已结题, 参加 (总排名 7)。

- [8] 四川省科技计划项目, “基于近似无衍射微波波束的远距离无线输能关键技术研究”, 2019YFG0418, 2019.01-2020.12, 20 万元, 已结题, 参加(总排名 4)。
- [9] 横向企业合作项目, “蜂窝 RFID 算法研究和原型机开发项目二期”, H04W170579, 2017.11-2018.11, 71.306 万元, 已结题, 参加(总排名 4)。
- [10] 横向企业合作项目, “基于射频技术的无源柔性薄膜传感器件”, H04W170520, 2017.10-2018.08, 30 万元, 已结题, 参加(总排名 2)。
- [11] 横向企业合作项目, “物联网标签技术研究”, H04W160270, 2016.08-2018.12, 80 万元, 已结题, 参加(总排名 6)。
- [12] 横向企业合作项目, “射频识别读写器技术与产品开发”, H04W160162, 2015.08-2017.12, 34.4 万元, 已结题, 参加(总排名 6)。
- [13] 横向企业合作项目, “蜂窝 RFID 算法研究和原型机开发项目技术研究合同”, H04W2016000405, 2016.08-2018.12, 78 万元, 已结题, 参加(总排名 5)。
- [14] 中央高校基本科研业务费项目, “无线数据与能源一体化通信网络关键问题研”, ZYGX2016Z011, 2017/01-2019/12, 100 万元, 已结题, 参加(总排名 10)。
- [15] 重点实验室基金项目, “基于单极子的宽带共形端射天线及阵列技术研究”, H04010101W00114011, 2013/09-2015/08, 20 万元, 已结题, 参加。
- [16] Italian project, Friuli Venezia Giulia region regional law 14/2010, art. 16, “ESTAMOS Electronic and systems into electric cars for sustainable mobility”, 2012/01 – 2014/12, 250,000€, concluded, co-researcher.

## **Publications:**

### **1. Journal papers:**

- [1] Z. Yang, W. Zheng, **D. Inserra**#, J. Li, Y. Huang, G. Wen#, “Focus Beam Synthesis With Circular Antenna Array Based On Radial Waveguide Feed Network,” *IEEE Antennas Wireless Propag. Lett.*, vol.20, no. 5, pp. 748-752, May 2021. (SCI 期刊, 中科院 JCR 二区 (Top), IF=3.726)
- [2] G. Li, Z. Li, D. Guan, Z. Huang, W. Hu, **D. Inserra**, J. Li, Y. Huang, G. Wen, “A Hydrogen Concentration Monitoring System with Passive Tags,” *IEEE IoT J.*, Early access, 2021. (SCI 期刊, 中科院 JCR 一区 (Top), IF=9.936)
- [3] F. Zhao, **D. Inserra**#, G. Gao, Y. Huang, J. Li, G. Wen#, “High-Efficiency Microwave Rectifier With Coupled Transmission Line for Low-Power Energy Harvesting and Wireless Power Transmission,” *IEEE Trans. Microw. Theory Tech.*, vol. 69, no. 1, pp. 916-925, Jan. 2021. (SCI 期刊, 中科院 JCR 一区 (Top), IF=3.413)
- [4] Z. Yang, G. Wen, W. Hu, **D. Inserra**\*, Y. Huang, J. Li, “Microwave Airy Beam Generation with Microstrip Patch Antenna Array,” *IEEE Trans. Antennas Propag.*, vol. 69, no. 4, pp. 2290-2301, 2020. (SCI 期刊, 中科院 JCR 一区 (Top), IF=4.371)
- [5] Y. Huang, J. Li, H.-X. Xu, H. Yu, Z. Yang, P. Yu, W. Hu, **D. Inserra**, G. Wen, “Experimental Demonstration of Microwave Two-Dimensional Airy Beam Generation Based on Single-Layer Metasurface,” *IEEE Trans. Antennas Propag.*, vol. 68, no. 11, pp. 7507-7516, Nov. 2020. (SCI 期刊, 中科院 JCR 一区 (Top), IF=4.371)

- [6] **D. Inserra**, W. Hu, Z. Li, G. Li, F. Zhao, Z. Yang, G. Wen, "Screw Relaxing Detection With UHF RFID Tag," *IEEE Access*, vol. 8, pp. 78553 – 78564, Apr. 2020. (SCI 期刊, 中科院 JCR 二区 (Top), IF=3.745)
- [7] F. Zhao, **D. Inserra\***, G. Wen, J. Li, Y. Huang, A high-efficiency inverse class-F microwave rectifier for wireless power transmission, *IEEE Microw. Wireless Comp. Lett.*, vol. 29, no. 11, pp. 725-728, Nov. 2019. (SCI 期刊, 中科院 JCR 二区, IF=2.31)
- [8] W. Hu, Z. Yang, F. Zhao, G. Wen, J. Li, Y. Huang, **D. Inserra\***, Z. Chen, "Low cost air gap metasurface structure for high efficiency energy harvesting," *Int. J. Antennas Propag. (Hindawi)*, vol. 2019, ID 1727619, 8 pages, Sep. 2019. (SCI 期刊, 中科院 JCR 四区, IF=1.207)
- [9] **D. Inserra**, G. Wen, Compact crossed dipole antenna with meandered series power divider for UHF RFID tag and handheld reader devices, *IEEE Trans. Antennas Propag.*, vol. 67, no. 6, pp. 4195-4199, Jun. 2019. (SCI 期刊, 中科院 JCR 一区 (Top), IF=4.371)
- [10] F. Zhao, Z. Li, G. Wen, J. Li, **D. Inserra\***, Y. Huang, "A compact high efficiency watt-level microwave rectifier with a novel harmonic termination network," *IEEE Microw. Wireless Comp. Lett.*, vol 29, no. 6, pp. 418-420, Jun. 2019. (SCI 期刊, 中科院 JCR 二区, IF=2.31)
- [11] H. Luo, G. Wen, J. Su, Z. Huang, **D. Inserra**, "Multi-hop distance-bounding for improving security and efficiency of ad-hoc networks," *IEEE IoT J.*, vol. 6, no. 3, pp. 5312-5323, Jun. 2019. (SCI 期刊, 中科院 JCR 一区 (Top), IF=9.936)
- [12] W. Hu, G. Wen, **D. Inserra\***, Y. Huang, J. Li, Z. Chen, "Enhanced gain circularly polarized antenna array for long range UHF RFID systems," *Electronics (MDPI)*, vol. 8, no. 4 (400), Apr. 2019. DOI:10.3390/electronics8040400. (SCI 期刊, 中科院 JCR 三区, IF=2.412)
- [13] X. Fang, G. Wen, **D. Inserra\***, Y. Huang, J. Li, "Compact wideband CPW-fed meandered-slot antenna with slotted Y-shape central element for Wi-Fi, WiMAX, and 5G applications," *IEEE Trans. Antennas Propag.*, vol. 66, no. 12, pp. 7395-7399, Dec. 2018. (SCI 期刊, 中科院 JCR 一区 (Top), IF=4.371)
- [14] W. Hu, **D. Inserra\***, G. Wen, Z. Chen, "Wideband low axial ratio and high gain sequentially rotated antenna array," *IEEE Antennas Wireless Propag. Lett.*, vol. 17, no. 12, pp. 2264-2268, Dec. 2018. (SCI 期刊, 中科院 JCR 二区 (Top), IF=3.726)
- [15] **D. Inserra**, X. Fang, Y. Huang, G. Wen, "CPW slot antenna with Y-shaped central monopole and matching arms," *Int. J. Microw. Wireless Tech. (Cambridge)*, vol. 10, no. 10, pp. 1166-1174, Dec. 2018. DOI: 10.1017/S1759078718001034. (SCI 期刊, 中科院 JCR 四区, IF=0.939)
- [16] K. Oteng Gyasi, G. Wen, **D. Inserra**, Y. Huang, E. A. Ampoma J. Li, M. A. Basit, H. B. Zhang, "Tri-band planar monopole antenna with two circularly polarized bandwidths for WiMAX applications," *IET Microw., Antennas Propag.*, vol. 12, no. 15, pp. 2350-2355, Dec. 2018. (SCI 期刊, 中科院 JCR 三区, IF=1.972)
- [17] K. Oteng Gyasi, G. Wen, **D. Inserra**, E. A. Ampoma, Y. Huang, J. Li, M. A. Basit, H.

- Zhang, A compact broadband circularly polarized slot antenna with two linked rectangular slots and an inverted-F feed line, *IEEE Trans. Antennas Propag.*, vol. 66, no. 12, pp. 7374-7377, Dec. 2018. (SCI 期刊, 中科院 JCR 一区 (Top), IF=4.371)
- [18] **D. Inserra**, G. Wen, W. Hu, "Sequentially rotated circular array with curved PIFA and series feed network," *IEEE Trans. Antennas Propag.*, vol. 66, no. 11, pp. 5849-5858, Nov. 2018. (SCI 期刊, 中科院 JCR 一区 (Top), IF=4.371)
- [19] **D. Inserra**, W. Hu, G. Wen, "Antenna array synthesis for RFID-based Electronic toll collection," *IEEE Trans. Antennas Propag.*, vol. 66, no. 9, pp. 4596-4605, Sep. 2018. (SCI 期刊, 中科院 JCR 一区 (Top), IF=4.371)
- [20] **D. Inserra**, G. Wen, W. Hu, "Linear optimization of antenna array for radiation pattern defined on a planar surface," *J. Electrom. Waves App. (Taylor & Francis)*, vol. 32, no. 16, pp. 2030-2045, Jun. 2018. (SCI 期刊, 中科院 JCR 四区, IF=1.373)
- [21] X. C. Fang, **D. Inserra\***, Y. J. Huang, G. J. Wen, "Compact slotted CPW-fed Y-shape patch antenna for Wi-Fi and WiMAX applications," *Microw. Opt. Tech. Lett. (Wiley)*, vol. 60, pp. 1934-1936, Jun. 2018. DOI:10.1002/mop.31268. (SCI 期刊, 中科院 JCR 四区, IF=0.957)
- [22] **D. Inserra**, G. Wen, "Planar miniaturized CP antenna with coaxial feeding," *Microw. Opt. Tech. Lett. (Wiley)*, vol. 60, no. 4, pp. 956-960, Apr. 2018. DOI: 10.1002/mop.31082. (SCI 期刊, 中科院 JCR 四区, IF=0.957)
- [23] K. Oteng Gyasi, G. Wen, **D. Inserra**, Y. Huang, J. Li, A. E. Ampoma, H. B. Zhang, "A compact broadband cross-shaped circularly polarized planar monopole antenna with a ground plane extension," *IEEE Antennas Wireless Propag. Lett.*, vol. 17, no. 2, Feb. 2018. (SCI 期刊, 中科院 JCR 二区 (Top), IF=3.726)
- [24] **D. Inserra**, W. Hu, G. Wen, "Design of a microstrip series power divider for sequentially rotated non uniform antenna array," *Int. J. Antennas Propag. (Hindawi)*, vol. 2017, ID 9482979, 8 pages, Jan. 2017. (SCI 期刊, 中科院 JCR 四区, IF=1.207)
- [25] **D. Inserra**, A. M. Tonello, "A multiple antenna wireless testbed for the validation of DoA estimation algorithms," *AEU - Int. J. Electron. Comm. (Elsevier)*, vol. 68, no. 1, pp. 10-18, 2014. (SCI 期刊, 中科院 JCR 二区, IF=2.924)
- [26] **D. Inserra**, A. M. Tonello, "A frequency domain LOS angle of arrival estimation approach in multipath channels," *IEEE Trans. Vehicular Tech.*, vol. 62, no. 6, pp. 2812-2818, 2013. (SCI 期刊, 中科院 JCR 二区, IF=5.379)
- [27] **D. Inserra**, A. M. Tonello, "Performance analysis of a novel antenna array calibration approach for direction finding systems," *Trans Emerg. Telecom. Tech. (Wiley)*, vol. 23, no. 8, pp. 777-788, Dec. 2012. DOI: 10.1002/ett.2576. (SCI 期刊, 中科院 JCR 四区, IF=1.594)
- [28] **D. Inserra**, A. M. Tonello, "Characterization of hardware impairments in multiple antenna systems for DoA estimation," *J. Electric. Comp. Engin. (Hindawi)*, vol. 2011, ID 908234, 10 pages, Dec. 2011. (EI 期刊)

## 2. Conference papers:

- [29] **D. Inserra** and G. Wen, "Miniaturized sequentially rotated curved PIFA circular array for handheld RFID reader," *IEEE 15<sup>th</sup> Annual Conference on Radio Frequency Identification (RFID2021)*, Atlanta, Georgia, 27-29 April, 2021 (online).
- [30] Z. Yang, **D. Inserra**, F. Xie, F. Zhao, Y. Huang, J. Li; G. Wen, "Optimization of Large Antenna Arrays for Radiative Wireless Power Transfer," *Cross Strait Radio Science & Wireless Technology Conference (CSRSWTC2020)*, Fuzhou, China, 13-16 Dec. 2020.
- [31] **D. Inserra**, F. Xie, Z. Yang, Y. Huang, J. Li, G. Wen, "Dual-Mode Microstrip Patch Antennas For Largely Spaced Phased Arrays," *Cross Strait Radio Science & Wireless Technology Conference (CSRSWTC2020)*, Fuzhou, China, 13-16 Dec. 2020.
- [32] F. Zhao, **D. Inserra**, G. Wen, "Compact and High Efficiency Rectifier Design based on Microstrip Coupled Transmission Line for Energy Harvesting," *IEEE/MTT-S International Microwave Symposium (IMS2020)*, Los Angeles, CA (USA), 4-6 Aug. 2020.
- [33] J. B. R. Hajri, **D. Inserra**, W. Gu, W. Hu, Y. Huang, J. Li, "Fast and Automatic RF Design Based on MATLAB-HFSS Control Applied on Magnetic Absorber with Metasurface," *Progress In Electromagnetics Research Symposium (PIERS 2019)*, Xiamen, China, 17-20 Dec. 2019.
- [34] W. Gu, H. Zhang, W. Zheng, Y. Yang, W. Hu, **D. Inserra**, Z. Xu, G. Li, D. Zhang, J. Li, Y. Huang, G. Wen, "Ultra-wideband Active Absorber Based on Multiple Frequency Selective Surface and Magnetic Layers," *Progress In Electromagnetics Research Symposium (PIERS 2019)*, Xiamen, China, 17-20 Dec. 2019.
- [35] W. Hu, H. Zhang, W. Zheng, Y. Yang, W. Gu, **D. Inserra**, Z. Xu, G. Li, D. Zhang, J. Li, Y. Huang, Y. Huang, G. Wen, "Ultra-wideband Dual-layer Magnetic Absorber with Active Impedance Matching," *Progress In Electromagnetics Research Symposium (PIERS 2019)*, Xiamen, China, 17-20 Dec. 2019.
- [36] **D. Inserra**, A. M. Tonello, G. Wen, DoA estimation in multipath channels for packet transmission communication systems, *23rd International ITG Workshop on Smart Array (WSA2019)*, Vienna, Austria, 24-26 Apr. 2019.
- [37] **D. Inserra**, Y. Huang, G. Wen, H. Zhang, L. Zuo, "Optimization of circularly polarized corner truncated patch with Matlab Antenna Toolbox," *IEEE Asia-Pacific Conference on Antennas and Propagation (APCAP2018)*, Auckland, New Zealand, 5-8 Aug. 2018.
- [38] Y. Huang, H. Yu, L. Ma, J. Li, Z. Yang, W. Hu, **D. Inserra**, G. Wen, Experimental demonstration of microwave Airy beam generation based on metasurface, *IEEE Asia-Pacific Conference on Antennas and Propagation (APCAP2018)*, Auckland, New Zealand, 5-8 Aug. 2018.
- [39] Y. Huang, X. Fang, **D. Inserra**, J. Li, G. Wen, H. Zhang, L. Zuo, "Miniaturized broadband CPW-fed folded-slot antenna for Wi-Fi and WiMAX applications," *IEEE Asia-Pacific Conference on Antennas and Propagation (APCAP2018)*, Auckland, New Zealand, 5-8 Aug. 2018.
- [40] W. Hu, **D. Inserra**, Y. Huang, J. Li, G. Wen, J. Xie, W. Zhe, "High efficiency electromagnetic energy harvesting with metasurface," *IEEE Asia-Pacific Conference on Antennas and Propagation (APCAP2018)*, Auckland, New Zealand, 5-8 Aug. 2018.
- [41] **D. Inserra**, J. Li, Y. Huang, G. Wen, "Screw tightening monitoring with RFID

passive tag," *Cross Strait Quad-Regional Radio Science and Wireless Technology Conference (CSQRWC2018)*, Xuzhou, China, 21-24 Jul. 2018.

- [42] W. Hu, **D. Inserra**, Y. Huang, G. Wen, J. Li, L. Zuo, H. Zhang, "High gain circularly polarized substrate integrated coaxial line fed antenna array for RFID band," *Cross Strait Quad-Regional Radio Science and Wireless Technology Conference (CSQRWC2018)*, Xuzhou, China, 21-24 Jul. 2018.
- [43] **D. Inserra**, W. Hu, G. Wen, P. Wang, "Comparison among different feed network topologies for sequential rotated antenna array," *Progress in Electromagnetics Research Symposium - Fall (PIERS – FALL 2017)*, Singapore, 19-22 Nov. 2017.
- [44] **D. Inserra**, G. Wen, "Communication area synthesis for next generation highway ETC systems," *IEEE/CIC International Conference on Communications in China (ICCC2016)*, Chengdu, China 27-29 Jul. 2016.
- [45] **D. Inserra**, G. Wen, "Antenna array beam pattern optimization including r-decay factor," *IEEE MTT-S International Wireless Symposium (IWS2016)*, Shanghai, China, 14-16 Mar 2016.
- [46] **D. Inserra**, W. Hu, G. Wen, "Planar antenna array design considerations for RFID electronic toll collection system," *IEEE MTT-S International Wireless Symposium (IWS2016)*, Shanghai, China, 14-16 Mar 2016.
- [47] K. Oteng Gyasi, G. Wen, **D. Inserra**, J. Li, A. E. Affum, Y. Huang, "Compact and Wideband CP Slot Antenna with Rectangular Slots and Inverted-F Feedline," *IEEE Antennas and Propagation Symposium (APS2018)*, Boston, Massachusetts (USA), 8-13 Jul. 2018.
- [48] Y. Zhao, G. Wen, **D. Inserra**, Y. Huang, "On the Generation of truncated Airy beams with antenna arrays," *IEEE Antennas and Propagation Symposium (APS2018)*, Boston, Massachusetts (USA), 8-13 Jul. 2018.
- [49] Y. Zhao, G. Wen, **D. Inserra**, Y. Huang, "Propagation range enhancement of truncated Airy beam with antenna array at microwave frequencies," *IEEE MTT-S International Wireless Symposium (IWS2018)*, Chengdu, China, 6-10 May 2018.
- [50] W. Hu, **D. Inserra**, Y. Huang, G. Wen, "High gain linearly polarized wideband UHF antenna based on substrate integrated coaxial line feeding network," *IEEE Antennas and Propagation Symposium (APS2017)*, San Diego, California (USA), 9-14 Jul. 2017.
- [51] **D. Inserra**, A. M. Tonello, "Training symbol exploitation in CP-OFDM for DoA estimation in multipath channels," *21st European Signal Processing Conference (EUSIPCO 2013)*, Marrakech, Marrocco, 9-13 Sep. 2013.
- [52] **D. Inserra**, A. M. Tonello, N. Moret, "Positioning based on 2-D angle of arrival estimation," *IEEE 73rd Vehicular Technology Conference – Spring (VTC-Spring 2011)*, Budapest, Hungary, 15-18 May 2011.
- [53] **D. Inserra**, A. M. Tonello, "DoA estimation with compensation of hardware impairments," *IEEE 72nd Vehicular Technology Conference – Fall (VTC-Fall 2010)*, Ottawa, Canada, 6-9 Sep. 2010.
- [54] A. M. Tonello, **D. Inserra**, "Radio positioning based on DoA estimation: An implementation perspective," *2013 IEEE International Conference on Communications Workshop (ICC)*, Budapest, Hungary, 9-13 Jun. 2013, pp. 27-31 (Invited paper).

- [55] M. De Piante, **D. Inserra**, A. M. Tonello, "People navigation system in confined spaces," *IEEE AESS European Conference on Satellite Telecommunications*, Rome, Italy, 2-5 Oct. 2012.

### 3. Book chapters:

- [56] **D. Inserra**, G. Wen, "Array pattern synthesis for ETC applications," full chapter in "Antenna Array Optimization", IntechOpen, 2018. ISBN 978-953-51-6320-6.

### Lectures:

- [1] "Antenna array for radio localization and communication area synthesis", at Alpen-Adria-Universitat, Klagenfurt, Austria, 2017-08-22.

### Patents:

#### 1. Authorized:

- [1] 黄勇军, 文光俊, 方小川, **殷丹 (D. Inserra)**, 李建, "兼容 5G 与 Wi-Fi/WiMax 频段的小型化天线", 中国发明专利号: 201810619049.3 (申请日期: 2018-06-15), 授权公告号: CN108682943A (授权日期: 2020-01-14), 电子科技大学。
- [2] 胡伟, 文光俊, **殷丹 (D. Inserra)**, 黄勇军, "基于周期性磁性材料的超宽带吸波器", 中国发明专利号: 201910499655.0 (申请日期: 2019-06-11); 授权公告号: CN110137691B (授权日期: 2020-10-09), 电子科技大学。
- [3] Huaizhi Zhang, Sunjie Wang, **D. Inserra**, G. Wen, "ANTENNA, PERIPHERAL CIRCUIT, ANTENNA SYSTEM, AND SIGNAL PROCESSING METHOD", *applicant*: Huawei Technologies Co., Ltd., *publication numbers*: US20200153100 (authorized: 2020-05-14), EP3624265 (authorized: 2020-03-18), CN109216882 (authorized: 2019-01-15), IN201937053750 (authorized: 2020-05-22).

#### 2. Applied:

- [1] **殷丹 (D. Inserra)**, 杨钊, 文光俊, "一种为移动用户进行连续无线能量传输的方法", 中国发明专利申请号: 202110433957.5 (申请日: 2021-4-22), 电子科技大学。
- [2] **殷丹 (D. Inserra)**, 杨钊, 赵发定, 文光俊, "一种用于菲涅耳区域高效无线能量传输的超材料天线阵列", 中国发明专利申请号: 202011358136.1 (申请日: 2020-11-27), 电子科技大学。
- [3] **殷丹 (D. Inserra)**, 杨钊, 赵发定, 文光俊, "一种基于最大无线能量传输效率快速设计天线阵列的方法", 中国发明专利申请号: 202011089224.6 (申请日: 2020-10-13), 电子科技大学。
- [4] **殷丹 (D. Inserra)**, 顾巍巍, 胡伟, 文光俊, 黄勇军, "一种基于非福斯特有源阻抗匹配电路的超薄超宽带平板吸波器的设计方法", 中国发明专利申请号: 202010504878.4 (申请日: 2020-06-05), 电子科技大学。



- [5] Huaizhi Zhang, Sunjie Wang, **D. Inserra**, G. Wen, "ANTENNA, PERIPHERAL CIRCUIT, ANTENNA SYSTEM, AND SIGNAL PROCESSING METHOD", *applicant*: Huawei Technologies Co., Ltd., *international application number*: PCT/CN2018/092184 (application date: 2018-06-21)

## ► MEMBERSHIPS AND OTHER ACTIVITIES

- **Membership:** IEEE Member (from 2011), (IEEE Antennas and Propagation Society, IEEE Vehicular Communication Society)
- **Revision activities:** IEEE Transactions on Antennas and Propagations, IEEE Transactions on Vehicular Communications, IEEE Antennas and Wireless Propagation Letters, IEEE Access, IEEE Open Journal on Antennas and Propagations, IET Microwave, Antennas and Propagation, IEEE Vehicular Technology Conference (VTC), IEEE Asia-Pacific Microwave Conference (APMC).

## ► EXTRA SKILLS & DISTINCTIONS

- **Computer:** proficient with operative systems Windows, GNU Linux and their applications.
- **Software design:** working knowledge C, C++, Matlab/Octave; HTML, php, javascript, mysql, postgresql, assembly 8086.
- **Design tools:** Ansoft HFFS, Ansoft Designer, CST Microwave Studio, Keysights ADS, Cadence Orcad, Mentor Graphics Pads, ModelSim, Xilinx ISE, Altera Quartus II (VHDL), QUCS (circuit simulator), EDX Signal Pro (wireless network design), Emlab (cellular network electromagnetic impact).
- **Clean driving license**