

PERSONAL INFORMATION **Marco Donald Migliore**

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input checked="" type="checkbox"/> Full professor	<input checked="" type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	<input type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input checked="" type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

2020- **Full professor of Electromagnetic theory**
 University of Cassino and Southern Lazio
 Research and teaching
Business or sector Antennas and electromagnetic theory

2001-2020 **Associate professor of Electromagnetic theory**
 University of Cassino and Southern Lazio
 Research and teaching
Business or sector Antennas and electromagnetic theory

1995-2001 **Researcher**
 University of Napoli "Federico II"
 Research
Business or sector Antennas and electromagnetic theory

2005- **Head of Microwave Laboratory**
 University of Cassino and Southern Lazio
 Research
Business or sector Antennas and electromagnetic theory

EDUCATION AND TRAINING

1983-1990 **Laurea Degree in Electronics**
 University of Napoli "Federico II", Napoli, Italy
 ▪ Electronics

1990-1994 **Ph.D. in Electronic and Computer Science**
 University of Napoli "Federico II", Napoli, Italy
 ▪ Medical and industrial applications of microwaves

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s) English (C1 level),
Chinese (HSK3 level)

ADDITIONAL INFORMATION

Selected publications

- Adda, S., Aureli, T., Bastonero, S., D'Elia, S., Franci, D., Grillo, M.D. Migliore, ... & Vaccarone, M. (2022). Methodology Based on Vector and Scalar Measurement of Traffic Channel Power Levels to Assess Maximum Exposure to Electromagnetic Radiation Generated by 5G NR Systems. *IEEE Access*, 10, 12125-12136.
- Migliore, Marco Donald, et al. "A new paradigm in 5G maximum power extrapolation for human exposure assessment: Forcing gNB traffic toward the measurement equipment." *IEEE Access* 9 (2021): 101946-101958
- Migliore, M. D. (2021). The world beneath the physical layer: An introduction to the deep physical layer. *IEEE Access*, 9, 77106-77126.
- Migliore, Marco Donald, and Fulvio Schettino. "Power reduction estimation of 5G active antenna systems for human exposure assessment in realistic scenarios." *IEEE Access* 8 (2020): 220095-220107.
- Adda, S., Aureli, T., D'elia, S., Franci, D., Grillo, E., Migliore, M. D., ..., Suman, R. (2020). A theoretical and experimental investigation on the measurement of the electromagnetic field level radiated by 5G base stations. *IEEE Access*, 8, 101448-101463.
- Migliore, M. D., & Schettino, F. (2020). Power reduction estimation of 5G active antenna systems for human exposure assessment in realistic scenarios. *IEEE Access*, 8, 220095-220107.
- Heikkila, M., Erkkila, J., Tervonen, J.K., Koskela, M., Heikkila, J., Kupiainen, T., Kippola, T., Nykanen, A., Saukkonen, R., Migliore, M.D., "Field measurement for antenna configuration comparison in challenging NLOS locations", *IEEE Transactions on Instrumentation and Measurement*, 67 (10), art. no. 8436003, pp. 2476-2486, 2018
- Viani, F., Migliore, M.D., Polo, A., Salucci, M., Massa, A., "Iterative classification strategy for multi-resolution wireless sensing of passive targets", *Electronics Letters*, 54 (2), pp. 101-103, 2018
- Migliore, M. D. (2018). Horse (electromagnetics) is more important than horseman (information) for wireless transmission. *IEEE Transactions on Antennas and Propagation*, 67(4), 2046-2055
- Fuchs, B., Le Coq, L., Rondineau, S., & Migliore, M. D. (2017). Fast antenna far-field characterization via sparse spherical harmonic expansion. *IEEE Transactions on Antennas and Propagation*, 65(10), 5503-5510.
- Fuchs, Benjamin, Laurent Le Coq, and Marco Donald Migliore. "Fast antenna array diagnosis from a small number of far-field measurements." *IEEE Transactions on Antennas and Propagation* 64.6 (2016): 2227-2235.
- Migliore, Marco Donald. "A compressed sensing approach for array diagnosis from a small set of near-field measurements." *IEEE Transactions on Antennas and Propagation* 59.6 (2011): 2127-2133.
- Franceschetti, Massimo, Marco Donald Migliore, and Paolo Minero. "The capacity of wireless networks: Information-theoretic and physical limits." *IEEE Transactions on Information Theory* 55.8 (2009): 3413-3424
- Migliore, Marco Donald. "On electromagnetics and information theory." *IEEE transactions on antennas and propagation* 56.10 (2008): 3188-320
- Migliore, Marco Donald. "On the role of the number of degrees of freedom of the field in MIMO channels." *IEEE Transactions on Antennas and Propagation* 54.2 (2006): 620-628.
- Migliore, Marco Donald, Daniele Pinchera, and Fulvio Schettino. "Improving channel capacity using adaptive MIMO antennas." *IEEE Transactions on Antennas and Propagation* 54.11 (2006): 3481-3489.

Io sottoscritto Marco Donald Migliore autorizzo il trattamento dei dati personali presenti nel CV ai sensi del GDPR (Regolamento UE 2016/679), del D.lgs. 196/2003 e del D.Lgs. 101/2018"

Marco Donald Migliore
Prof. Marco Donald Migliore