

# Curriculum Vitae Frank Leferink



## Personal Data

Title:	Prof. dr. ir. Ing.
Name:	Leferink, Frank B.J.
Born:	Tubbergen, nationality dutch, 21-04-1962
Status:	Married, 3 children (1993, 1996, 1999)
Telephone:	+31-534894330
E-mail:	Frank.Leferink@UTwente.nl
E-mail:	Frank.Leferink@nl.Thalesgroup.com

29 april 2011: Ridder in de Orde van Oranje-Nassau

1 January 2019: named Fellow IEEE

## Relevant Working Experience:

1984 – now: Thales Nederland, Hengelo, and

1998 – now: University of Twente, Enschede, Nederland

2003 – now: University of Twente, Enschede, Nederland, full-professor, part-time

2007 – now: Honorary Professor EMC, University of Nottingham, United Kingdom

2007 – 2013: Acting chair Telecommunication Engineering group University of Twente

2017 – 2020: Acting chair TE group University of Twente

2021 – : Acting chair Power Electronics & EMC group University of Twente

## Activities EMC:

- Director EMC of Thales Nederland  
Responsible for the EMC Expert Team, EMC technology studies (short term, long term), new products, from concept phase up to deployment; Performed many (internal) studies; Responsible for development of modelling and simulation, mitigation actions, methodologies and techniques.
- Manager of the Network of Excellence on EMC (Electromagnetic Compatibility) of the Thales Group (80.000 employees worldwide), with over 100 experts active in EMC
- Author of over 500 papers, published in technical journals or presented at international symposia.
- Holder of patents on reverberation chambers (to develop high field strength), spatial diversity, dual reverberation chambers, field strength sensors and lightning protection
- Member of the Board of Directors of the IEEE EMC Society 2017-2019 and 2020-2022
- Associate Editor IEEE Transactions on EMC
- Associate Editor IEEE Letters on EMC Practice and Applications
- Honorary Professor EMC University of Nottingham
- Crown member of the Raad van Deskundigen for the Dutch Metrology Institute
- Member of the Technical Program Committee of EMC Zurich, now Asia-Pacific EMC
- Vice-Chair of the International Steering Committee of EMC Europe conferences
- Treasurer of EMC Europe Symposia foundation
- Chairman IEEE EMC Benelux Chapter
- Chairman of EMC Europe 2018
- Technical Program Committee Chair APEMC 2021
- Technical Program Committee Chair IEEE EMC&SIPI Symposium 2022
- Keynote speaker at the Asia-Pacific EMC conference in 2016
- Co-founder, past-president and past member of the board of directors of the Nederlandse EMC-ESD vereniging (>200 members)

- Prizes
  - Winner 3<sup>rd</sup> Prize Thales Innovators Award 2003
  - Second best student paper, EMC Zurich 2007
  - Best student paper, Asia-Pacific EMC 2008
  - Finalist Best Symposium paper, Asia-Pacific EMC 2015
  - Best Student paper, IEEE – EMC Europe 2015
  - Second best overall symposium paper IEEE – EMC Europe 2015
  - Best paper award, 2016 EMC Europe
  - Best runner-up student paper, 2018 EMC Europe
- Education activities
  - Master courses University of Twente: EMC, and Transmission Media
  - Graduate School (PhD students) Technical University Turin
  - Post Academic (PAO) EMC course, Socrates EMC course, Polytechnique X Paris EMC course, Young Scientist Program, HIRF-SE
  - Global EMC University IEEE
  - Many contributions to Tutorials and to Workshops (Tutorial Fundamentals, Low Frequency EMI, Reverberation Chambers)
  - Developed many EMC demo's which have been given and/or sold worldwide to several tens of universities and institutes

## **IEEE activities:**

- Established the Belgium-Netherlands-Luxembourg (BeNeLux) IEEE-EMC chapter in 2001-2002, together with Prof. Catrysse
- Treasurer of IEEE BeNeLux EMC Chapter 2002-2006
- Chairman of IEEE BeNeLux EMC Chapter 2006-now
- Region 8 coordinator of the IEEE EMC Society
- Member of the IEEE EMC Society Board of Directors, 2017-2019 and 2020-2022
- Vice-Chair IEEE EMC Society Education Committee
- Associate Editor IEEE Transactions on EMC
- Associate Editor IEEE Letters on EMC Practice and Applications
- Lecturer for the IEEE Global EMC University in 2010, 2011, 2018, 2019, 2020, 2021
- Contributed actively to the creation of TC7 on low frequency EMI
- Contributes actively at the annual IEEE Symposium on EMC:
  - o Demonstrations
  - o Workshop organiser and contributor
  - o Tutorials on shielding and reverberation chambers

## **Research projects:**

- Thales:
  - Many projects within Thales
  - Many (>100) student projects: stage, final assignment
  - Marie Curie (6<sup>th</sup> EU) Sigpro (1 postgrad, appr. 120k€ 2005-2007)
  - Marie Curie (6<sup>th</sup> EU) LIVIRP (1 postdoc, appr. 160k€ 2006-2007)
  - Marie Curie Transfer of Knowledge (6<sup>th</sup> EU) Prediction of Electromagnetic Fields, about modelling of electromagnetic fields in enclosed environments (houses, offices, hospitals, cars etc.), with Thales, University of Nottingham, Turin, Wroclaw and Split (160 manmonths, 935k€ 2006-2010)
- University of Twente
  1. IOP-EMVT project MOPE  
1 PhD researcher (Anne Roc'h), 2005-2009
  2. EMI due to lightning  
1 PhD researcher (Alex Blaj), 2007-2011
  3. IOP-EMVT2 project Embedded Metamaterials  
1 PhD researcher (Olga Tereschenko), 2010-2014
  4. EU 7<sup>th</sup> FP, HIRF-SE project  
1 PhD researcher (Robert Vogt-Ardatjew), 2012-2016
  5. IOP-EMVT2 project Power Quality  
1 PhD researchers (Roelof Timens), + postdoc, 2009-2013
  6. EU 7<sup>th</sup> FP, STRUCTURES project  
1 PhD researcher (Stefan van de Beek), + postdoc, 2012-2016
  7. Maritieme Innovatie  
1 PhD researcher (Bart van Leersum), 2012-2016
  8. Conducted EMI  
1 PhD researcher (Cees Keyer, 2012-2016
  9. European Metrology Research Project, Industry-60, Improved EMC Test methods in Industrial Environments, 2013-2016  
2 post-doc (Roelof Timens, Frits Buesink)
  10. NWO Netherlands-India collaboration, Smart Grids, 2014-2018  
1 PhD (Niek Moonen)
  11. Fellowship funded by Indonesian Ministry of Technology and Research for Dwi Mandaris. He is from Research Center for Quality System and Testing Technology - Indonesian Institute of Sciences, 2015-2019  
1 PhD (Dwi Mandaris)

12. Fellowship funded by Indonesian Ministry of Technology and Research for Iwan Setiawan.  
He is also from Indonesian Institute of Sciences, 2015-2019  
1 PhD (Iwan Setiawan)
13. National Aerospace Research Laboratory, 2017-2020  
1 PhD (Jesper Lansink Rotgerink)
14. Frits Buesink, retired and pursuing PhD, 2017 - 2021
15. Koos Fockens, retired and pursuing PhD, 2017 - 2021
16. European Metrology Research Project, Meter EMI  
2 PhD (Bas ten Have, Tom Hartman)
17. Coordinator of Marie Curie European Joint Doctorate SCENT project, 2018 – 2022  
3 PhD Twente, + 3 in Nottingham + 3 Zielona Gora
18. Coordinator of Marie Curie European Joint Doctorate ETOPIA project, 2019 – 2023  
2 PhD Twente, + 2 in Nottingham + 2 Zielona Gora + 2 Milan + 2 Hannover + 2 Craiova
19. Marie Curie European ITN PETER project, 2019 – 2023  
3 PhD in Netherlands, all finalizing their thesis at University of Twente
20. H2020, EASIER, 1 PhD
21. NWO, Dutch Science Foundation, ANRGI  
2 PhD and 1 Postdoc in the Netherlands, several staff in Indonesia. Project has 623 mm, and  
funded: 253 mm in the Netherlands and 300 mm in Indonesia, for a period of 3 years
22. Coordinator Marie Curie European Joint Doctorate ETUT project, 2021-2025  
6 PhD in Netherlands, 4 employed and 2 finalizing their thesis at University of Twente
23. Marie Curie European ITN ETERNTY project, 2021 – 2025  
2 PhD at UT

### **Patents:**

A list of patents is shown in the next table.

Unique: Application number	Also published as: Application number	Title	Inventor(s)	Applicant	Publication date	Priority	Date of application
NL1010745 (C2)		<a href="#">TEST CHAMBER</a>	LEFERINK FRANCISCUS BERNARDUS [NL]	HOLLANDSE SIGNAALAPPARATEN BV [NL]	8-6-2000	NL19981010745 WO1999EP09216	7-12-1998 26-11-1999
	US6563327 (B1)	<a href="#">Test chamber</a>		THALES NEDERLAND BV [NL]	13-5-2003		
	WO0034795 (A1)	<a href="#">TEST CHAMBER</a>		HOLLANDSE SIGNAALAPPARATEN BV [NL]; LEFERINK FRANCISCUS BERNARDUS [NL]	15-6-2000		
	JP2002532689 (A)	<a href="#">TEST CHAMBER</a>			2-10-2002		
	IL143030 (A)	<a href="#">TEST CHAMBER</a>		THALES NEDERLAND BV [NL]	25-7-2004		
	EP1141733 (A1)	<a href="#">TEST CHAMBER</a>		THALES NEDERLAND BV [NL]	10-10-2001		
	EP1141733 (B1)	<a href="#">TEST CHAMBER</a>		THALES NEDERLAND BV [NL]	5-7-2003		
	DE69907739 (T2)	<a href="#">TEST CHAMBER</a>		THALES NEDERLAND BV [NL]	1-4-2004		
	CA2352133 (A1)	<a href="#">TEST CHAMBER</a>		HOLLANDSE SIGNAALAPPARATEN BV [NL]	15-6-2000		
	CA2352133 (C)	<a href="#">TEST CHAMBER</a>		HOLLANDSE SIGNAALAPPARATEN BV [NL]	27-10-2009		
	AU1860500 (A)	<a href="#">Test chamber</a>		HOLLANDSE SIGNAALAPPARATEN BV [NL]	26-6-2000		
	AT239921 (T)	<a href="#">TEST CHAMBER</a>		THALES NEDERLAND BV [NL]	15-5-2003		
	AU761981 (B2)	<a href="#">Test chamber</a>		THALES NEDERLAND BV [NL]	12-6-2012		
EP2256507 (A1)		<a href="#">A dual deformable reverberation chamber</a>	LEFERINK FRANCK [NL]	THALES NEDERLAND BV [NL]	1-12-2010	EP20090161259	27-5-2009
	US2011043222 (A1)	<a href="#">DUAL DEFORMABLE REVERBERATION CHAMBER</a>		THALES NEDERLAND BV [NL]	24-2-2011		
	CA2705686 (A1)	<a href="#">A DUAL DEFORMABLE REVERBERATION CHAMBER</a>		THALES NEDERLAND BV [NL]	27-11-2010		
	Israel 206046	<a href="#">A DUAL DEFORMABLE REVERBERATION CHAMBER</a>		THALES NEDERLAND BV [NL]	27-05-2010		
EP2256862 (A1)		<a href="#">A system to prevent two rotating antennas from illuminating each other</a>	LEFERINK FRANK	THALES NEDERLAND BV [NL]	1-12-2010	EP20090161271	27-5-2009
	ES2386101 (T3)	<a href="#">A system to prevent two rotating antennas from illuminating each other</a>		THALES NEDERLAND BV [NL]	9-8-2012		
	US2011050483 (A1)	<a href="#">SYSTEM TO PREVENT TWO ROTATING ANTENNAS FROM ILLUMINATING EACH OTHER</a>		THALES NEDERLAND BV [NL]	3-3-2011		
	EP2256862 (B1)	<a href="#">A system to prevent two rotating antennas from illuminating each other</a>		THALES NEDERLAND BV [NL]	16-5-2012		
	CA2705661 (A1)	<a href="#">A SYSTEM TO PREVENT TWO ROTATING ANTENNAS FROM ILLUMINATING EACH OTHER</a>		THALES NEDERLAND BV [NL]	27-11-2010		
	US8344938 (B2)	<a href="#">SYSTEM TO PREVENT TWO ROTATING ANTENNAS FROM ILLUMINATING EACH OTHER</a>		THALES NEDERLAND BV [NL]	1-1-2013		
FR2969764 (A1)		<a href="#">APPAREIL POUR LA MESURE DE L'INTENSITE D'UN CHAMP ELECTROMAGNETIQUE</a>	LEFERINK FRANK [NL], BUESINK FRITS [NL], SERRA RAMIRO [NL]	THALES NEDERLAND BV [NL]	27-12-2012	EP20100196642	22-12-2010
	US2012326933 (A1)	<a href="#">APPARATUS FOR MEASURING THE STRENGTH OF AN ELECTROMAGNETIC FIELD</a>		THALES NEDERLAND BV [NL]	29-6-2012		
	FR2969764 (B1)	<a href="#">APPAREIL POUR LA MESURE DE L'INTENSITE D'UN CHAMP ELECTROMAGNETIQUE</a>		THALES NEDERLAND BV [NL]	11-10-2013		
EP2607727 (A1)		<a href="#">Pivot linkage device with bearings comprising means for protection against high voltage transients</a>	LEFERINK FRANK [NL]; HOGEMAN EDWIN LEONARDUS JOSEPHUS [NL]	THALES NEDERLAND BV [NL]	26-6-2013	EP20110195056	21-12-2011
	WO2013092520 (A1)	<a href="#">PIVOT LINKAGE DEVICE WITH BEARINGS COMPRISING MEANS FOR PROTECTION AGAINST HIGH VOLTAGE TRANSIENTS</a>			26-6-2013		21-12-2011
	US14/367166	<a href="#">Pivot linkage device with bearings comprising means for protection against high voltage transients</a>			19-6-2014		21-12-2011

Referred in patents:

Note: only the US versions, because searching references in other patents is complex.

By searching on these patent numbers, the associated patents, including the references, can be found)

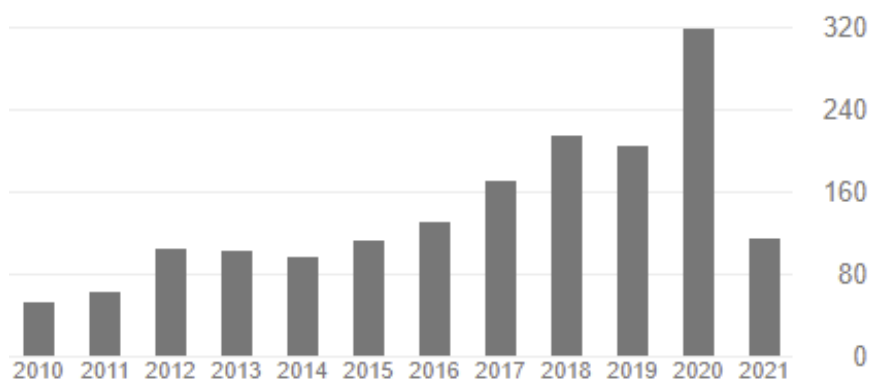
- US5861753, Electromagnetic compatibility (EMC) test cell, Lorenzo Carbonini, Thermo Voltek Italy (referring to F.B.J. Leferink, A Triple-Tem Cell: Three Polarizations in One Setup, Proceedings of the Tenth International Symposium on EMC, pp. 573-578, Zurich 1993; and F.B.J. Leferink, Triple-Tem Cell: A Simple Device for Immunity Testing, Proceedings of the IEEE International Symposium on EMC, pp. 455-459, 1994)
- US6114860, Rotary coupled transmission line cell, Jae Hoon Yun, Electronics and Telecommunications Research Institute, Daejeon, Rep. of Korea (referring to Frank B.J. Leferink, A Triple-TEM Cell: Three Polarizations in One Setup", pp. 573-578)
- US6754876, System and method for designing a printed board adapted to suppress electromagnetic interference, Sasaki e.a. NEC (referring to F. Leferink, Reduction Of Printed Circuit Board Radiated Emission, IEEE 1997 International Symposium on Electromagnetic Compatibility, pp. 431-438, Aug. 1997)
- US7228105, Field test chamber arrangement (referring to US 6563327 patent)
- US7299698, Vibration test module having controllable vibration attributes (referring to US6563327 patent)
- US7554339, Electromagnetic testing of an enclosure or cavity using a discrete frequency stir method (referring to US6563327 patent)
- US7697495, Packet sniffer node and system including the same to assess wireless communication performance (referring to Leferink F., et al., "Reduction of Radiated Electromagnetic Fields by Removing Power Planes", Electromagnetic Compatibility, 2004 International Symposium, vol, 1., pp. 226-230, 2004)
- US7912164, Synchronization system and method for wireless communicating nodes (referring to Leferink, F., et al., "Reduction of Radiated Electromagnetic Fields by Removing Power Planes", Electromagnetic Compatibility, 2004 International Symposium, vol, 1., pp. 226-230, 2004)
- US8022713, Method for measuring antenna characteristics out operational frequency range of chamber (referring to US6563327 patent)
- US8326229, Systems and methods for over-the-air testing of wireless systems (referring to US6563327 patent)
- US8489666, Method and apparatus for signal filtering and for improving properties of electronic devices (referring to F. Leferink, F. Silva, J. Catrysse, S. Batterman, V. Beauvois, and A. Roc'h. Man-made noise in our living environments. Radio Science Bulletin, (334):49-57, Sep. 2010)
- US8655284, Systems and methods for over-the-air testing of wireless systems (referring to US6563327 patent)
- US20130339418, Method and Apparatus for Signal Filtering and for Improving Properties of Electronic Devices (referring to F. Leferink, F. Silva, J. Catrysse, S. Batterman, V. Beauvois, and A. Roc'h. Man-made noise in our living environments. Radio Science Bulletin, (334):49-57, Sep. 2010)
- US20130297665, Method and Apparatus for Signal Filtering and for Improving Properties of Electronic Devices (referring to F. Leferink, F. Silva, J. Catrysse, S. Batterman, V. Beauvois, and A. Roc'h. Man-made noise in our living environments. Radio Science Bulletin, (334):49-57, Sep. 2010)
- EP0853242, Method for testing printed-circuit boards (referring to Leferink et al., Inductance of Printed Circuit Board Ground Planes" 1993 Int. Symposium on Electromagnetic Compatibility, 9 – 13 August 1993, Dallas, Texas, pp. 327-329)
- DE19501329 C1, Vorrichtung zur EMI-Prüfung elektronischer Geräte (referring to F.B.J. Leferink, A Triple-Tem Cell: Three Polarizations in One Setup, Proceedings of the Tenth International Symposium on EMC, pp. 573-578, Zurich 1993)

## Publications

Key publications, using Google Scholar:

Title / Authors	Cited by	Year
Inductance calculations; methods and equations, FBJ Leferink Electromagnetic Compatibility, 1995. Symposium Record. 1995 IEEE	117	1995
Static energy meter errors caused by conducted electromagnetic interference F Leferink, C Keyer, A Melentjev IEEE electromagnetic compatibility magazine 5 (4), 49-55	99	2016
Experimental results obtained in the vibrating intrinsic reverberation chamber F Leferink, JC Boudenot, W van Etten Electromagnetic Compatibility, 2000. IEEE International Symposium on 2, 639-644	96	2000
An overview of the techniques for measuring the dielectric properties of materials	81	2011
Reverberation chambers a la carte: An overview of the different mode-stirring techniques R Serra, AC Marvin, F Moglie, VM Primiani, A Cozza, LR Arnaut, Y Huang, ... IEEE Electromagnetic Compatibility Magazine 6 (1), 63-78	57	2017
Inductance of printed circuit board ground planes, FBJ Leferink, MJCM van Doorn Electromagnetic Compatibility, 1993. Symposium Record., 1993 IEEE	52	1993
Man-made noise in our living environments	45	2010

Citations per year:



## 2021

- Bas ten Have; Marco A. Azpúrua; Tom Hartman; Marc Pous; Niek Moonen; Ferran Silva; Frank Leferink, Waveform Model to Characterize Time-Domain Pulses Resulting in EMI on Static Energy Meters, *IEEE Transactions on Electromagnetic Compatibility*, 2021, Early Access Article
- Bas ten Have; Marco A. Azpúrua; Tom Hartman; Marc Pous; Niek Moonen; Ferran Silva; Frank Leferink, Estimation of Static Energy Meter Interference in Waveforms Obtained in On-Site Scenarios, *IEEE Transactions on Electromagnetic Compatibility*, 2021, Early Access Article
- Tom Hartman; Roelof Grootjans; Niek Moonen; Frank Leferink, Electromagnetic Compatible Energy Measurements Using the Orthogonality of Nonfundamental Power Components, *IEEE Transactions on Electromagnetic Compatibility*, 2021, Volume: 63, Issue: 2
- Bas ten Have; Niek Moonen; Frank Leferink, Time Domain Analysis of Current Transducer Responses Using Impulsive Signals, *IEEE Letters on Electromagnetic Compatibility Practice and Applications*, 2021, Volume: 3, Issue: 1
- Bas Ten Have, Niek Moonen, Frank Leferink, Electromagnetically Interfered Energy Metering Resulting from Droop of Current Transducers, 2021 Joint IEEE International Symposium on Electromagnetic Compatibility & Signal/Power Integrity, and EMC Europe, Page 250 - 254, 2021
- Danilo Izzo, Robert Vogt-Ardatjew, Frank Leferink, Considerations on the Dwell Time for a Vibrating Intrinsic Reverberation Chamber, 2021 Joint IEEE International Symposium on Electromagnetic Compatibility & Signal/Power Integrity, and EMC Europe, Page 355 - 359, 2021
- Alexander Matthee, Niek Moonen, Frank Leferink, Micro-Grid Inrush Current Stability Analysis, 2021 Joint IEEE International Symposium on Electromagnetic Compatibility & Signal/Power Integrity, and EMC Europe, Page 440 - 444, 2021
- Muhammad Imam Sudrajat, Niek Moonen, Hans Bergsma, Frank Leferink, Behavior of COTS-Based Equipment under Ship Mains Supply Frequency Tolerance Requirements, 2021 Joint IEEE International Symposium on Electromagnetic Compatibility & Signal/Power Integrity, and EMC Europe, Page 586 - 590, 2021
- Muhammad Ammar Wibisono, Niek Moonen, Deny Hamdani, Frank Leferink, Concept of Impedance Diversity for Conducted Interference Mitigation, 2021 Joint IEEE International Symposium on Electromagnetic Compatibility & Signal/Power Integrity, and EMC Europe, Page 637 - 641, 2021
- Daria Nemashkalo, Niek Moonen, Frank Leferink, Mode Decomposition in Multichannel Time-Domain Conducted Emission Measurements, 2021 Joint IEEE International Symposium on Electromagnetic Compatibility & Signal/Power Integrity, and EMC Europe, Page 643 - 647, 2021
- Denys Pokotilov, Robert Vogt-Ardatjew, Frank Leferink, Efficient Multichannel Time-Domain Multiaxis Loop Antenna Measurement for Frequencies below 30 MHz, 2021 Joint IEEE International Symposium on Electromagnetic Compatibility & Signal/Power Integrity, and EMC Europe, Page 648 - 652, 2021
- Vasiliki Gkatsi, Robert Vogt-Ardatjew, Frank Leferink, Risk-Based EMC System Analysis Platform of Automotive Environments, 2021 Joint IEEE International Symposium on Electromagnetic Compatibility & Signal/Power Integrity, and EMC Europe, Page 749 - 753, 2021
- Tom Hartman, Bas ten Have, Niek Moonen, Frank Leferink, How to Earn Money with an EMI Problem: Static Energy Meters Running Backwards, 2021 Joint IEEE International Symposium on Electromagnetic Compatibility & Signal/Power Integrity, and EMC Europe, Page 788 - 792, 2021
- Leonardo C Malburg, Niek Moonen, Frank Leferink, The Changing Electromagnetic Environment Onboard All-Electric Aircraft, an EMC Perspective, 2021 Joint IEEE International Symposium on Electromagnetic Compatibility & Signal/Power Integrity, and EMC Europe, Page 845 - 849, 2021
- Mumpy Das, Robert Vogt-Ardatjew, Bärbel van den Berg, Frank Leferink, Time-Efficient EMI Risk Evaluation Method in a Hospital Environment, 2021 Joint IEEE International Symposium on Electromagnetic Compatibility & Signal/Power Integrity, and EMC Europe, Page 857 - 861, 2021
- Vasiliki Gkatsi, Evangelia Tourounoglou, Robert Vogt-Ardatjew, Hans Schipper, Frank Leferink, Limitations of Shielding Effectiveness Measurements of Planar Materials using a DTEM Cell, 2021 Joint IEEE International Symposium on Electromagnetic Compatibility & Signal/Power Integrity, and EMC Europe, Page 889 - 893, 2021
- Alexander Matthee; Peter William Futter; Robert Vogt-Ardatjew; Frank Leferink, Lightning Strike EMP Effect on Local Grids, 2021 Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC)
- Amr Madi; Niek Moonen; Robert Smolenski; Douglas Aguiar do Nascimento; Piotr Lezynski; Frank Leferink, EMI Levels Associated with MMC Capacitors Voltage Balancing Techniques, 2021 Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC)



- Bas ten Have; Niek Moonen; Frank Leferink, Current Emissions Generated by Dimmed Lighting Equipment of Different Technologies, 2021 Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC)
- Boy Ihsan; Alexander Matthee; Frank Leferink; Tri Desmana Rachmilda; Deny Hamdani, Active Transient EMI Stabilization, 2021 Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC)
- Danilo Izzo; Robert Vogt-Ardatjew; Frank Leferink, Experimental Observations of the Minimum Dwell Time for Radiated Immunity Tests in a Vibrating Intrinsic Reverberation Chamber, 2021 Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC)
- Jesper Lansink Rotgerink; Ramiro Serra; Frank Leferink, Multiconductor Transmission Line Modeling of Crosstalk Between Cables in the Presence of Composite Ground Planes, IEEE Transactions on Electromagnetic Compatibility, Page 1231-1239, Volume 63, Issue 4, 2021, DOI: 10.1109/TEMC.2020.3040689
- Niek Moonen; Robert Vogt-Ardatjew; Frank Leferink, Simulink-Based FPGA Control for EMI Investigations of Power Electronic Systems, IEEE Transactions on Electromagnetic Compatibility, Page 1266 - 1273, Vol. 63, Issue 4, 2021, ISSN 0018-9375, Online ISSN: 1558-187X, DOI: 10.1109/TEMC.2020.3042301
- Daria Nemashkalo; Niek Moonen; Frank Leferink, Why Not(ch), 2021 Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC)
- Denys Pokotilov; Robert Vogt-Ardatjew; Frank Leferink, Efficient Time-Domain Multi-Channel Measurements Using a Multi-Axis Antenna for Frequency Range Below 30 MHz, 2021 Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC)
- Desmon Petrus Simatupang; Ilman Sulaeman; Niek Moonen; Jelena Popovic; Frank Leferink, Parasitics Analysis in the Power and Gate Driver Loops and Impact on the Ringing of SiC MOSFETs, 2021 Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC)
- Eric Steenbergen; Niek Moonen; Frank Leferink, 3D Full-Wave Simulation of Stub Length Effect of Vias in High Speed PCB Design, 2021 Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC)
- Ilman Sulaeman; Desmon Petrus Simatupang; Niek Moonen; Jelena Popovic; Frank Leferink, Source and Load Impedance Mismatch Analysis of a Power Line Filter in Microgrid Application, 2021 Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC)
- Leonardo C Malburg; Frank Leferink; Niek Moonen, The Impact of Flight Profiles Towards EMC on All-Electric Aircraft, 2021 Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC)
- Muhammad Ammar Wibisono; Bas ten Have; Waseem Elsayed; Niek Moonen; Deny Hamdani; Frank Leferink, Impact of a Speed-Controlled Water Pump on Power Line Communication of Smart Energy Meters, 2021 Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC)
- Muhammad Imam Sudrajat; Niek Moonen; Hans Bergsma; Frank Leferink, EMI Mitigation Technique for Warship Power Distribution Systems in the Frequency Range Below 150 kHz, 2021 Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC)
- Mumpy Das; Robert Vogt-Ardatjew; Bärbel van den Berg; Frank Leferink, Studying the Probability of EMI Through Time-Variance Behavior of Environment on Medical Devices, 2021 Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC)
- Nancy Omollo; Robert Vogt-Ardatjew; Frank Leferink; Jan-Kees van der Ven, Investigating the EMC Performance of a Matrix Converter and Measures to Improve It, 2021 Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC)
- Tom Hartman; Roelof Grootjans; Niek Moonen; Frank Leferink, The Effects of Falling and Rising Edge Dimming on Static Energy Meter Errors, 2021 Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC)
- Vasiliki Gkatsi; Robert Vogt-Ardatjew; Hans Schipper; Frank Leferink, Board Level Shielding Effectiveness Measurements Using the Dual VIRC, 2021 Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC)
- Waseem Elsayed; Hermes Loschi; Amr Madi; Niek Moonen; Robert Smolenski; Frank Leferink, Low-Frequency Envelope of DC/DC Converters Due Differences in the Control Hardware Features, 2021 Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC)

## 2020

- Matthee; N. Moonen; F. Leferink, Versatile High-Sample Frequency Power Quality Measurement Device, 2020 IEEE International Symposium on Electromagnetic Compatibility & Signal/Power Integrity (EMCSI), Page 213 - 215, 2020, DOI: 10.1109/EMCSI38923.2020.9191575,

- Matthee; N. Moonen; F. Leferink, Sub-Millisecond Transient Analysis with Multi-Point Measurement in Weak Grids, 2020 International Symposium on Electromagnetic Compatibility - EMC EUROPE, Page 1 - 6, 2020, DOI: 10.1109/EMCEUROPE48519.2020.9245718,
- B. ten Have; M. A. Azpúrua; M. Pous; F. Silva; F. Leferink, On-Site Waveform Survey in LV Distribution Network using a Photovoltaic Installation, 2020 International Symposium on Electromagnetic Compatibility - EMC EUROPE, Page 1 - 6, 2020, DOI: 10.1109/EMCEUROPE48519.2020.9245831,
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- Frank Leferink, Conducted EMI & Power Quality, Elektro Magnetische Verträglichkeit, 25 March 2018, Stuttgart
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- Frank Leferink, Shielding in Practice, Workshop at the Wroclaw University of Technology, 29 May 2018
- Frank Leferink, Measuring shielding effectiveness, Workshop at the Wroclaw University of Technology, 29 May 2018
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- Frank Leferink, University of Twente & THALES EMC activities, Workshop at BPPT and at LIPI, Serpong, Indonesia, 20 January 2017
- Frank Leferink, Challenges & Future Research in Electromagnetic Interference, Workshop at Universiti Tun Hussein Onn Malaysia, Johor, Malaysia, 18 January 2017
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- Frank Leferink, Interfered Technology: A Radiant Future for EMC engineers, National Conference on EMC, Puslit SMTP LIPI, Serpong, Indonesia, 26-27 July 2017
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- Frank Leferink, EMI and Energy Meters, IEC TC13 workshop, 11-13 September 2017, Gödöllő, Hungary
- Frits Buesink, Frank Leferink, Introduction, Establishing EMC awareness and competence in a large organization, National Conference on EMC, Puslit SMTP LIPI, Serpong, Indonesia, 26-27 July 2017
- Dwi Mandaris, Frank Leferink, Generating and optimizing an EMC Test Field for Radiated Immunity measurement using Reverberation chamber, National Conference on EMC, Puslit SMTP LIPI, Serpong, Indonesia, 26-27 July 2017
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