

Curriculum Vitae

Dati personali

Nome Aldo
Cognome Minardo
Data di nascita Novembre 18, 1974
Luogo di nascita Napoli - Italia
Indirizzo ufficio Dipartimento di Ingegneria - Università della Campania Luigi Vanvitelli Via Roma, 29 81031 Aversa
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Esperienze lavorative

2008-2015 Ricercatore di Elettronica presso il Dipartimento di Ingegneria dell'Informazione – Seconda Università di Napoli
2003 Visiting scientist presso la Scuola Politecnica di Losanna - Svizzera
2015-2019 Professore Associato di Elettronica presso il Dipartimento di Ingegneria dell'Informazione - Seconda Università di Napoli
2019- pres. Professore Ordinario di Elettronica presso il Dipartimento di Ingegneria - Università della Campania *Luigi Vanvitelli*
2018 Visiting Professor presso l'Università di Cluj-Napoca (Romania)

Attività di Gestione

2014-2019 MC (Management Committee) substitute dell'Azione COST TU1402 “Quantifying the value of structural health monitoring”

Studi

Marzo 2000 Laurea con lode in Ingegneria Elettronica presso l'Università di Napoli Federico II
Dicembre 2003 Dottorato di Ricerca in Ingegneria Elettronica e Informatica – Seconda Università di Napoli
Maggio 2000 Abilitazione all'esercizio della professione di Ingegnere presso Università di Napoli Federico II

Premi

2005 Premio “Best Doctoral Thesis Award in Optoelectronics” dell'IEEE/LEOS come autore della migliore Tesi di Dottorato in Optoelettronica discussa in Italia nel biennio 2003-2004.
2017 Riconoscimento come “Outstanding Reviewer” – Optical Society of America

2018 Premialità di Ateneo per proposte valutate con giudizio eccellente in bandi competitivi internazionali H2020 (Bando Valere2018)

Attività di servizio

2012-2016 Membro del Collegio dei Docenti del Dottorato in Ingegneria Elettronica e Informatica - Seconda Università di Napoli

2017-pres. Membro del Collegio dei Docenti del Dottorato in Ingegneria Industriale e dell'Informazione dell'Università della Campania Luigi Vanvitelli

2013-pres Membro di commissioni di concorso per ricercatore presso università italiane e presso il CNR

2016 Membro della commissione esaminatrice per l'attribuzione del Dottorato di Ricerca presso la Scuola Superiore Sant'Anna - Pisa

2018 Membro della commissione esaminatrice per l'attribuzione del Dottorato di Ricerca presso l'Università Parthenope

2018 Membro della commissione esaminatrice per l'attribuzione del Dottorato di Ricerca presso l'Università del Sannio

2019 Membro della commissione esaminatrice per l'attribuzione del Dottorato di Ricerca presso l'Università della Campania Luigi Vanvitelli

2019 Membro della commissione esaminatrice per l'attribuzione del Dottorato di Ricerca presso la Public University of Navarra - Pamplona –Spain

2018-pres Delegato per i Piani di Studio della Laurea Triennale in Ingegneria Elettronica e Informatica dell'Università della Campania “Luigi Vanvitelli”

2019-pres Referente dell'area Informazione per le attività di Terza Missione del Dipartimento di Ingegneria dell'Università della Campania “Luigi Vanvitelli”

Servizi Editoriali

2015-2018 Membro della Editorial Board di Journal of Sensors (ISSN1687-725X)

2015-pres. Membro della Editorial Board di Structural Monitoring and Maintenance (ISSN 2288-6605)

2018-pres. Membro della Editorial Board di Sensors (1424-8220)

2015 Membro of Comitato Tecnico della Conferenza Nazionale Fotonica2015 – Torino

2016 Membro del Comitato Tecnico della Conferenza Internazionale OSA “6th Asia Pacific Optical Sensors”, Shanghai, Cina.

2016 Membro of Comitato Tecnico della Conferenza Nazionale Fotonica2016 – Roma

2017 Membro of Comitato Tecnico della Conferenza Nazionale Fotonica2017 – Padova

2018 Membro of Comitato Tecnico della Conferenza Nazionale Fotonica2018 – Lecce

2019 General Chair del 7th International Symposium on Sensor Science 9–11 May 2019, Napoli, Italy

Ricerche finanziate

| | |
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| 2010 | Responsabile scientifico del progetto FP7 FOSAS (GA n. 255865) finanziato dall'Unione Europea |
| 2016-2019 | Coordinatore scientifico del progetto H2020 BRIDAS (GA n. 717064) finanziato dall'Unione Europea |
| 2016 | Coordinatore scientifico di un contratto di ricerca finanziato dalla MEDINOK - Italia |
| 2018 | Coordinatore scientifico di un contratto di ricerca finanziato dalla MEDINOK – Italia |
| 2018 | Coordinatore scientifico di un contratto di ricerca finanziato NEXT GEOSOLUTIONS - Italia |
| 2019-pres | Coordinatore scientifico di un contratto di ricerca finanziato dalla MEDINOK – Italia |

Brevetti nazionali e internazionali

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| 2006 | R. Bernini, A. Minardo, L. Zeni, “Metodo di misura di profilo di shift Brillouin in fibra ottica basato sulla demodulazione ottica dei segnali, e relativo apparato” N. RM2006A000302 |
| 2007 | R. Bernini, A. Minardo, L. Zeni, “Method for measuring the Brillouin shift distribution along optical fiber based on the optical demodulation of the signals, and relevant apparatus”, European Patent EP1865289 |
| 2008 | R. Bernini, A. Minardo, L. Zeni, “Metodo di misura di deformazioni dinamiche in fibra ottica basato sullo scattering di Brillouin tra due impulsi ottici, e relativo apparato”, N. RM2008A626 |
| 2009 | R. Bernini, A. Minardo, L. Zeni, “Method for measuring the Brillouin shift distribution along optical fiber based on the optical demodulation of the signals, and relevant apparatus”, US PATENT no. 7515273 |
| 2011 | R. Bernini, A. Minardo, L. Zeni “Metodo di ricostruzione del profilo di shift Brillouin in fibra ottica a partire da misure di scattering di Brillouin eseguite nel dominio della frequenza”, N. RM2011A000525 Second University of Naples |

Terza Missione

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| 2013 | Socio fondatore dello Spinoff accademico OPTOSENSING |
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Attività di revisione

Progetti di ricerca

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| 2013 | Progetti del Ministero dell'Università e della Ricerca |
| 2014-2018 | Progetti della Swiss National Science Foundation (SNSF) |
| 2015 | Progetti dell'Università degli studi di Roma Tor Vergata |
| 2016 | Progetti della Accademia delle Scienze Polacca |
| 2019 | Progetti della Research Grants Council (RGC) - Hong Kong. |

Riviste internazionali

2001-pres. Revisore per: Optics Letters, Chinese Optics Letters, Optics Express, Journal of the Optical Society of America B, IEEE Journal of Lightwave Technology, IEEE Photonics Technology Letters, Sensor and Actuators A, IEEE Sensors Journal, IEEE Photonics Journal, Measurement Science and Technology, Applied Physics B, Research Letters in Optics, Lasers in Engineering, Journal of Optics, Measurement, Optics & Laser Technology, New Journal of Physics, Nondestructive Testing and Evaluation, Journal of Zhejiang University-SCIENCE A, Journal of Visualized Experiments, Experimental Mechanics, Sensors, Journal of Selected Topics in Quantum Electronics, Applied Optics, Physical Science International Journal, Applied Sciences, IEEE Access.

Comitati di Revisione

2017-pres. Membro dell'Albo dei Revisori del Ministero dell'Università e della Ricerca

Tesi di Dottorato

2013 Revisore esterno per l'Università di Alcalá – Spagna
2014 Revisore esterno per l'Università Pubblica di Navarra – Spagna
2017-2018 Revisore esterno per l'Università Parthenope – Italia

Attività di ricerca

2001-pres. Dispositivi optoelettronici integrati e biosensori
2001-pres. Sensori distribuiti in fibra ottica
2019-pres. Sensori acustici in fibra ottica

Attività di insegnamento

2005-pres. Elettronica digitale presso l'Università della Campania *Luigi Vanvitelli*
2016-pres. Sensori per applicazioni biomedicali presso l'Università della Campania *Luigi Vanvitelli*

Collaborazioni Internazionali

2004-pres. Ecole Polytechnique Fédérale de Lausanne, Switzerland
2007-pres. Tel-Aviv University, Tel-Aviv, Israel
2008-pres. Wroclaw University of Technology, Poland
2010-pres. Military University, Warsaw, Poland
2010-pres. Public University of Navarra – Pamplona - Spain
2014-pres. University of Cantabria - Santander – Spain
2016-pres. Nanjing University – Nanjing - P. R. China

Collaborazioni Nazionali

- 2001-pres. National Research Council – Institute for Electromagnetic Sensing of the Environment (CNR-IREA)
2006-pres. Istituto Nazionale di Geofisica e Vulcanologia - Italy

Publicazioni scientifiche

- 2001-pres. 77 articoli su riviste internazionali, 3 capitoli di libri internazionali, 79 atti di conferenze internazionali, 33 atti di conferenze nazionali.

Qualificazione scientifica (SCOPUS)

- 2001-pres. H-Index: 23
Numero complessivo di citazioni: 1578; Numero complessivo di prodotti: 129

Elenco delle pubblicazioni:

- Riviste Internazionali

- AI1** R. Bernini, L. Crocco, A. Minardo, F. Soldovieri, L. Zeni, “*Frequency-domain approach to distributed fiber-optic Brillouin sensing*”, Opt. Lett., vol. 27, no. 5, pp. 288-290, Mar 2002.
- AI2** R. Bernini, A. Minardo, L. Zeni, “*Reconstruction technique for stimulated Brillouin scattering distributed fiber-optic sensors*”, Opt. Eng., vol. 41, no. 9, pp. 2186-2194, Sept 2002.
- AI3** R. Bernini, L. Crocco, A. Minardo, F. Soldovieri, L. Zeni, “*All Frequency Domain Distributed Fiber-Optic Brillouin Sensing*”, IEEE Sens. J., vol. 3, no. 1, pp. 36-43, Feb 2003.
- AI4** R. Bernini, A. Minardo, L. Zeni, “*Accuracy enhancement in Brillouin distributed fiber-optic temperature sensors using signal processing techniques*”, IEEE Photonic. Tech. L., vol. 16, no. 4, pp. 1143-1145, Apr 2004.
- AI5** R. Bernini, A. Minardo, L. Zeni, “*Stimulated Brillouin scattering frequency-domain analysis in a single-mode optical fiber for distributed sensing*”, Opt. Lett., vol. 29, no. 17, pp. 1977-1979, Sept 2004.
- AI6** A. Minardo, A. Cusano, R. Bernini, L. Zeni, M. Giordano, “*Response of fiber Bragg gratings to longitudinal ultrasonic waves*”, IEEE Trans. Ultrason. Ferroelectr. Freq. Control, vol. 52, no. 2, pp. 304-312, Feb 2005.
- AI7** A. Minardo, R. Bernini, L. Zeni, L. Thevenaz, F. Briffod, “*A reconstruction technique for long-range stimulated Brillouin scattering distributed fiber-optic sensors: experimental results*”, Meas. Sci. Technol., vol. 16, pp. 900-908, Feb 2005.
- AI8** R. Bernini, A. Minardo, L. Zeni, “*Distributed fiber-optic frequency-domain Brillouin sensing*”, Sens. Actuator A-Phys., vol. 123-124, pp. 337-342, 2005.
- AI9** R. Bernini, M. Fraldi, A. Minardo, V. Minutolo, F. Carannante, L. Nunziante, L. Zeni, “*Damage detection in bending beams through Brillouin distributed optic-fibre sensor*”, Bridge Structures, vol. 1, no. 3, pp. 355-363, 2005.
- AI10** R. Bernini, A. Minardo, L. Zeni, “*An accurate high-resolution technique for distributed sensing based on frequency domain Brillouin scattering*”, IEEE Photonic. Technol. L., vol. 18, no. 1, pp. 280-282, Jan 2006.

- AI11** R. Bernini, M. Fraldi, A. Minardo, V. Minutolo, F. Carannante, L. Nunziante, L. Zeni, “*Identification of defects and strain error estimation for bending steel beams using time domain Brillouin distributed optical fiber Sensors*”, *Smart Mater. Struct.*, vol. 15, pp. 612-622, Mar 2006.
- AI12** A. Minardo, R. Bernini, F. Mottola, L. Zeni, “*Optimization of metal-clad waveguides for sensitive fluorescence detection*”, *Optics Express*, vol. 14, no. 8, pp. 3512-3527, Apr 2006.
- AI13** A. Minardo, R. Bernini, L. Zeni, “*Low distortion Brillouin slow light in optical fibers using AM modulation*”, *Opt. Express*, vol. 14, no. 13, pp. 5866-5876, Jun 2006.
- AI14** R. Bernini, N. Cennamo, A. Minardo, L. Zeni, “*Planar waveguides for fluorescence-based biosensing: optimization and analysis*”, *IEEE Sens. J.*, vol. 6, no. 5, pp. 1218-1226, Oct 2006.
- AI15** R. Bernini, A. Minardo, L. Zeni, “*Accurate high-resolution fiber-optic distributed strain measurements for structural health monitoring*”, *Sens. Actuator A-Phys.*, vol. 134, pp. 389-395, 2007.
- AI16** R. Bernini, E. De Nuccio, F. Brescia, A. Minardo, L. Zeni, P. M. Sarro, R. Palombo, M. R. Scarfi, “*Development and characterization of an integrated silicon micro flow cytometer*”, *Anal. Bioanal. Chem.*, vol. 386, no. 5, pp. 1267-1272, Nov 2006.
- AI17** R. Bernini, A. Minardo, L. Zeni, “*Self-demodulated Heterodyne Frequency Domain Distributed Brillouin Fiber Sensor*”, *IEEE Photonic. Tech. L.*, vol. 19, no. 6, pp. 447-449, Mar 2007.
- AI18** R. Bernini, E. De Nuccio, A. Minardo, L. Zeni, “*2-D MMI devices based on integrated hollow ARROW waveguides*”, *IEEE J. Sel. Top. Quantum Electron.*, vol. 13, pp. 194-201, 2007.
- AI19** R. Bernini, A. Minardo, G. V. Persiano, R. Vaccaro, D. Villacci, L. Zeni, ‘*Dynamic Loading of Overhead Lines by Adaptive Learning Techniques and Distributed Temperature Sensing*’, *IET Gener. Transm. Dis.*, vol. 1, no. 6, pp. 912-919, Nov 2007
- AI20** A. Minardo, R. Bernini, L. Zeni, “*Stimulated Brillouin scattering modeling for high-resolution, time-domain distributed sensing*”, *Opt. Express*, vol. 15, no. 16, pp. 10397-10407, 2007.
- AI21** R. Bernini, A. Minardo, L. Zeni, “*Vectorial dislocation monitoring of pipelines by use of Brillouin-based fiber-optics sensors*”, *Smart Mater. Struct.*, vol. 17, pp. 015006, 2008.
- AI22** R. Bernini, E. De Nuccio, A. Minardo, L. Zeni, P. M. Sarro, “*Liquid-core/liquid-cladding integrated silicon ARROW waveguides*”, *Opt. Comm.*, vol. 281, no. 8, pp. 2062-2066, 2008.
- AI23** A. Minardo, R. Bernini, W. Urbanczyk, J. Wojcik, N. Gorbatov, M. Tur, L. Zeni, “*Stimulated Brillouin scattering in highly-birefringent microstructure fiber: experimental analysis*”, *Opt. Lett.*, vol. 33, no. 20, pp. 2329-2331, 2008.
- AI24** L. Olivares, E. Damiano, R. Greco, L. Zeni, L. Picarelli, A. Minardo, A. Guida, R. Bernini, “*An Instrumented Flume to Investigate the Mechanics of Rainfall-Induced Landslides in Unsaturated Granular Soils*”, *Geotechnical Testing Journal*, vol. 32, no. 2, Mar 2009.
- AI25** A. Minardo, R. Bernini, L. Zeni, “*Brillouin optical frequency-domain single-ended distributed fiber sensor*”, *IEEE Sens. J.*, vol. 9, no. 3, pp. 221-222, 2009.
- AI26** A. Minardo, R. Bernini, L. Zeni, “*A simple technique for reducing pump depletion in long-range distributed Brillouin fiber sensors*”, *IEEE Sens. J.*, vol. 9, no. 6, pp. 633-634, 2009.
- AI27** A. Cavallo, C. May, A. Minardo, C. Natale, P. Pagliarulo, S. Pirozzi, “*Active vibration control by a smart auxiliary mass damper equipped with a fiber Bragg grating sensor*”, *Sens. Actuator A-Phys.*, vol. 153, no. 2, pp. 180-186, 2009.
- AI28** R. Bernini, A. Minardo, L. Zeni, “*Dynamic strain measurement in optical fibers by stimulated Brillouin scattering*”, *Opt. Lett.*, vol. 34, no. 17, pp. 2613-2615, Sept 2009.
- AI29** A. Minardo, G. Testa, L. Zeni, R. Bernini, “*Theoretical and experimental analysis of Brillouin scattering in single mode optical fiber excited by an intensity- and phase-modulated pump*”, *IEEE J. of Lightw. Technol.*, vol. 28, no. 2, pp. 193-200, Jan 2010.
- AI30** A. Minardo, R. Bernini, L. Zeni, “*Comment on ““Slow Light” in stimulated Brillouin scattering: on the influence of the spectral width of pump radiation on the group index”*”, *Optics Expr.*, vol. 18, no. 2, pp. 1788-1790, 2010.

- AI31** R. Bernini, A. Minardo, G. Testa, L. Zeni, “*Dynamic strain measurements on a cantilever beam by stimulated Brillouin scattering*”, *Smart Mater. and Struct.*, vol. 19, pp. 045024, 2010.
- AI32** A. Zornoza, A. Minardo, R. Bernini, A. Loayssa, L. Zeni, “*Pulsing the probe wave to reduce nonlocal effects in Brillouin optical time domain analysis (BOTDA) sensors*”, *IEEE Sens. J.*, vol. 11, no. 4, pp. 1067, 1068, Apr 2011.
- AI33** R. Bernini, A. Minardo, S. Ciaramella, V. Minutolo, L. Zeni, “*Distributed strain measurement along a concrete beam via stimulated Brillouin scattering in optical fibers*”, *International Journal of Geophysics*, vol. 2011, Article ID 710941, 5 pages, 2011. doi:10.1155/2011/710941.
- AI34** A. Minardo, R. Bernini, L. Zeni, “*Numerical analysis of single pulse and differential pulse-width pair BOTDA systems in the high spatial resolution regime*”, *Optics Expr.*, vol. 19, no. 20, pp. 19233-19244, Sept 2011.
- AI35** R. Bernini, A. Minardo and L. Zeni, “*Long-range distributed Brillouin fiber sensors by use of an unbalanced double sideband probe,*”, *Optics Expr.*, vol. 19, no. 24, pp. 23845–23856, Nov 2011.
- AI36** A. Minardo, R. Bernini, L. Amato, L. Zeni, “*Bridge monitoring using Brillouin fiber-optic sensors*”, *IEEE Sens. J.*, vol. 12, no. 1, pp. 145-150, Jan 2012.
- AI37** R. Bernini, A. Minardo, L. Zeni, “*Distributed sensing at cm-scale spatial resolution by BOFDA: measurements and signal processing,*” *IEEE Photon. J.*, vol. 4, no. 1, pp. 48-56, Feb 2012.
- AI38** A. Cipullo, G. Gruca, K. Heeck, F. De Filippis, D. Iannuzzi, A. Minardo, L. Zeni, “*Numerical and experimental study of a ferrule-top cantilever optical fiber sensor applied to low speed air flow velocity measurements*”, *Sens. Actuator A-Phys.*, vol. 178, pp. 17-25, May 2012.
- AI39** A. Minardo, R. Bernini, L. Zeni, “*Spatial resolution enhancement in pre-activated BOTDA schemes by numerical processing,*” *IEEE Photon. Technol. L.*, vol. 24, no. 12, pp. 1003-1005, Jun 2012.
- AI40** A. Minardo, R. Bernini, L. Zeni, “*Differential Techniques for High-Resolution BOTDA: An Analytical Approach,*” *IEEE Photon. Technol. L.*, vol. 24, no. 15, pp. 1295-1297, Aug 2012.
- AI41** A. Minardo, G. Persichetti, G. Testa, L. Zeni, R. Bernini, “*Long term structural health monitoring by Brillouin fiber-optic sensing: a real case*”, *Journal of Geophysics and Engineering*, vol. 9, pp. S64-S69, Aug 2012.
- AI42** N. Jimenez–Redondo, N. Bosso, L. Zeni, A. Minardo, F. Schubert, F. Heinicke, A. Simroth, “*Automated and Cost-Effective Maintenance for Railway (ACEM–Rail)*”, *Procedia - Social and Behavioral Sciences*, vol. 48, pp. 1058-1067, ISSN 1877-0428, 10.1016/j.sbspro.2012.06.1082, 2012.
- AI43** A. Minardo, L. Zeni, R. Bernini, “*High-spatial and spectral resolution time-domain Brillouin distributed sensing by use of two frequency-shifted optical beam pairs*”, *IEEE Photon. J.*, vol. 4, no. 5, pp. 1900-1908, Oct 2012.
- AI44** A. Minardo, A. Coscetta, S. Pirozzi, R. Bernini, L. Zeni, “*Modal analysis of a cantilever beam by use of Brillouin based distributed dynamic strain measurements*”, *Smart Mater. Struct.*, 21, 125022, 2012, Nov 2012.
- AI45** A. Minardo, R. Bernini, L. Zeni, “*Limitations and strategies to improve measurement accuracy in DPP-BOTDA sensing*”, *Appl. Opt.*, vol. 52, no. 13, pp. 3020-3026, 2013.
- AI46** A. Minardo, G. Porcaro, D. Giannetta, R. Bernini, L. Zeni, “*Real-time monitoring of railway traffic using slope-assisted Brillouin distributed sensors*”, *Appl. Opt.*, vol. 52, pp. 3770-3776, 2013.
- AI47** A. Minardo, R. Bernini, L. Zeni “*Bend-induced Brillouin frequency shift variation in a single-mode fiber*”, *IEEE Photonic. Technol. L.*, vol. 25, no. 23, pp. 2362-2364, 2013.
- AI48** A. Minardo, A. Coscetta, S. Pirozzi, R. Bernini, L. Zeni, “*Experimental modal analysis of an aluminum rectangular plate by use of the slope-assisted BOTDA method*”, *Smart Mater. Struct.*, vol. 22, 125035, 2013.
- AI49** L. Zeni, A. Minardo, G. Porcaro, D. Giannetta, R. Bernini, “*Monitoring railways with optical fibers*”, *SPIE Newsroom* (December 2013). Published Online: December 2, 2013. doi: 10.1117/2.1201311.005246.

- AI50** A. Minardo, R. Bernini, L. Zeni, “*Distributed temperature sensing in polymer optical fiber by BOFDA*”, IEEE Photonic Technol. L., vol. 26, no. 4, pp. 387-390, Feb 2014.
- AI51** A. Minardo, A. Coscetta, L. Zeni, R. Bernini “*High-spatial-resolution DPP-BOTDA by real-time balanced detection*,” IEEE Photonic Technol. L., vol. 26, no. 12, pp. 1251-1254, Jun 2014.
- AI52** A. Minardo, R. Bernini, L. Zeni, “*Experimental and numerical study on stimulated Brillouin scattering in a graded-index multimode fiber*”, Opt. Express, vol. 22, no. 14, pp. 17480-17489, Jul 2014.
- AI53** A. Minardo, A. Coscetta, G. Porcaro, D. Giannetta, R. Bernini, L. Zeni, “*Distributed optical fiber sensors for integrated monitoring of railway infrastructures*”, Structural Monitoring and Maintenance, vol. 1, no. 2, pp. 173-182, 2014, DOI: 10.12989/smm.2014.1.2.173, 2014.
- AI54** A. Minardo, A. Coscetta, R. Bernini, R. Ruiz-Lombera, J. Mirapeix Serrano, J. Miguel Lopez-Higuera, and L. Zeni, “*Structural damage identification in an aluminum composite plate by Brillouin sensing*”, IEEE Sens. J., vol. 15, no. 2, pp. 659-660, Feb 2015.
- AI55** L. Zeni, L. Picarelli, B. Avolio, A. Coscetta, R. Papa, G. Zeni, C. Di Maio, R. Vassallo, A. Minardo, “*Brillouin Optical Time Domain Analysis for Geotechnical Monitoring*”, Journal of Rock Mechanics and Geotechnical Engineering, vol. 7, pp. 458-462, May 2015.
- AI56** E. Damiano, L. Olivares, R. Greco, A. Minardo, L. Zeni, L. Picarelli, “*Performance of Slope Behaviour Indicators in Unsaturated Pyroclastic Soils*”, Journal of Mountain Science, vol. 12, no. 6, pp. 1434-1447, 2015.
- AI57** A. Minardo, R. Bernini, L. Zeni, “*Analysis of SNR penalty in Brillouin Optical Time-Domain Analysis sensors induced by laser source phase noise*”, J. Opt., vol. 18, no. 2, 025601, Feb 2016.
- AI58** A. Minardo, A. Coscetta, R. Bernini, L. Zeni, “*Heterodyne Slope-Assisted Brillouin Optical Time-Domain Analysis for dynamic strain measurements*”, J. Opt., vol. 18, no. 2, 025606, Feb 2016.
- AI59** A. Minardo, A. Coscetta, S. Pirozzi, L. Zeni, “*Brillouin Optical Time Domain Analysis Sensor for Active Vibration Control of a Cantilever Beam*,” Journal of Sensors, vol. 2016, Article ID 1351378, 6 pages, 2016. doi:10.1155/2016/1351378.
- AI60** S. Carlino, M. Mirabile, C. Troise, M. Sacchi, L. Zeni, A. Minardo, M. Caccavale, V. Darányi, G. De Natale, “*Distributed-Temperature-Sensing Using Optical Methods: A First Application in the Offshore Area of Campi Flegrei Caldera (Southern Italy) for Volcano Monitoring*,” Remote Sens., vol. 8, no. 8, 674, Aug 2016.
- AI61** A. Minardo, A. Coscetta, R. Bernini, L. Zeni, “*Brillouin Optical Time Domain Analysis in silica fibers at 850 nm wavelength*”, IEEE Photonic Technol. L., vol. 28, no. 22, pp. 2577-2580, Nov 2016.
- AI62** A. Minardo, E. Catalano, L. Zeni, “*Cost-effective method for fast Brillouin optical time-domain analysis*,” Opt. Express, vol. 24, 25424-25431, 2016.
- AI63** A. Minardo, R. Bernini, Ruben R.-Lombera, J. Mirapeix, J. M. Lopez-Higuera, L. Zeni, “*Proposal of Brillouin optical frequency-domain reflectometry (BOFDR)*”, Opt. Express, vol. 24, pp. 29994-30001, 2016.
- AI64** E. Damiano, B. Avolio, A. Minardo, L. Olivares, L. Picarelli, and L. Zeni, “*A Laboratory Study on the Use of Optical Fibers for Early Detection of Pre-Failure Slope Movements in Shallow Granular Soil Deposits*,” Geotechnical Testing Journal, <https://doi.org/10.1520/GTJ20160107>. ISSN 0149-6115, 2017.
- AI65** A. Coscetta, A. Minardo, L. Olivares, M. Mirabile, M. Damiano, M. Longo, L. Zeni, “*Wind turbine blade monitoring with Brillouin-based fiber optic sensors*,” Journal of Sensors, vol. 2017, Article ID 9175342, 5 pages, 2017. doi:10.1155/2017/9175342.
- AI66** A. Minardo, A. Coscetta, E. Catalano, L. Zeni, “*Simultaneous strain and temperature measurements by dual wavelength Brillouin sensors*,” IEEE Sens. J., vol. 17, no. 12, pp. 3714-3719, Apr 2017.
- AI67** L. Zeni, A. Coscetta, E. Catalano, A. Minardo, “*High-pass filtering for accurate reconstruction of the Brillouin Frequency Shift profile from Brillouin Optical Frequency Domain Analysis data*,” IEEE Sens. J., vol. 18, no. 1, pp. 185-192, Jan 2018.

- AI68** R. Bernini, G. Persichetti, E. Catalano, L. Zeni, A. Minardo, “*Refractive index sensing by Brillouin scattering in side-polished optical fibers*,” *Opt. Lett.*, vol. 43, no. 10, pp. 2280-2283, 2018.
- AI69** F. Cascetta, A. Lo Schiavo, A. Minardo, M. Musto, G. Rotondo, A. Calcagni, “*Analysis of the energy extracted by a harvester based on a piezoelectric tile*,” *Curr. Appl. Phys.*, vol. 18, pp. 905-911, May 2018.
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