

## **Curriculum Vitae**

Valerio Elia is Assistant Professor at University of Salento (Italy).

Born November 16<sup>th</sup>, 1968. Valerio Elia received his degree in Physics (110/110 cum laude) at University of Lecce in 1993, with a dissertation on “Measurement of total and differential cross sections of Hadron production of  $J/\psi$  at FNAL/E771”. He received his PhD in Physics at University of Bari with a dissertation on “Perspectives for the violation of CPT and T at KLOE”.

Ordinary member of the Associazione Italiana di Ingegneria Gestionale (AiIG).

He carries out his research and teaching activities at the Department of Engineering for Innovation of the University of Salento. He is the author of papers at national and international level on books, conference proceedings, and journals. He has a good international experience gained in American, European and Russian research centers and universities. Excellent knowledge of spoken and written English, good knowledge of written French.

Reviewer for a number of peer-reviewed international journals, including: Waste Management, Journal of Cleaner Production, Resources, Conservation & Recycling, International Journal of Sustainable Engineering, Journal of CO2 Utilization.

H Index (as calculated on SCOPUS, on September 23, 2018) = 7.

### ***Scientific and academic career***

- 1991 “Summer Student” at Fermilab (Chicago, US) during the preparation of graduate thesis;
- 1991-1992 “Visiting Scholar” at Fermilab (Chicago, US) during the preparation of graduate thesis;
- 1993 Degree in Physics with honor;
- 1993 “Visiting Researcher” at High Energy Physics Laboratory of University of Virginia at Charlottesville;
- 1993 Starting of PhD course in Physics – University of Bari (Italy);
- 1995 “Visiting Researcher” at Nuclear Physics Centre of Novosibirsk (Russia);
- 1996 “Visiting Researcher” at CERN of Geneva and Laboratori Nazionali di Frascati (Italy);
- 1997 Received his PhD in High Energy Physics;
- 1997-1998 Researcher at Physics Department of Lecce University;
- 1991-1998 Associated with the National Institute of Nuclear Physics (INFN);
- 1999-2000 Research grant funded by ELASIS (FIAT group) to search in the field of “Knowledge Management” at the Department of Engineering for Innovation of the University of Salento;
- From 2001 Assistant Professor at University of Salento.

### ***Teaching activity***

Almost 20 years of teaching experience on the topics of “Economics and Business Organization”, “Business Management” and “e-Business Models”, both at undergraduate and graduate level:

- 1999-2008 “Economics and Business Organization”, Bachelor of Science Degree in Industrial Engineering and Information Technology Engineering;
- 2001-2002 “Business Management” Bachelor of Science Degree in Management Engineering;
- 2002-2004 “e-Business Models”, Master of Science Degree in Management Engineering;
- 2008-2018 “Economics and Business Organization”, Bachelor of Science Degree in Industrial Engineering.

### ***Management experience***

- 2002 Organizational manager of the Summer School on “Managing Intellectual Capital in the Network Economy: Creating Leadership for Business Innovation” – ISUFI/University of Lecce;
- 2001-2002 Organizational manager of the Postgraduate Master in “eBusiness Management” – ISUFI/University of Lecce;
- 2001 Organizational manager of the Summer School on “Managerial Implications of Complexity Theory in the Network Economy” – ISUFI/University of Lecce;

- 2000-2001 Organizational manager of the Postgraduate Master in “eBusiness Management” – ISUFI/University of Lecce;
- 1999-2001 Managing Director of ISUFI – University of Lecce;
- 1999-2000 Organizational manager of the Postgraduate Master in “Sviluppo e Marketing dei Sistemi Territoriali” – ISUFI/University of Lecce;
- 1993 Organizational manager of the International Congress on “Heavy Quarks” at Laboratori Nazionali di Frascati – Italy.

***Technology transfer experience***

- 2013 Co-founder of a start-up, Peachwire Srl, focused on the design of new solutions based on IoT (Internet of Things) paradigm;
- 2010 Co-founder of a University spin-off, SmartID Srl, focused on AutoID technologies like RFID and NFC.

***Scientific coordinator of research projects***

- 2018 Winner of the “Fondo per le attività base di ricerca” (ex art. 1, commi 295 e seguenti, della Legge 11 dicembre 2016 n. 232);
- 2014-2015 Coordinator of research unit of Department of Engineering for Innovation of project “Wi-Fi 2.0 e borsellino elettronico – Smart Wallet” funded by Apulian Regional Government;
- 2012-2014 Scientific coordinator of the project “NFC-TAP” funded by Apulian Regional Government;
- 2004-2007 Coordinator of research unit of Department of Engineering for Innovation of project “ASSONET – La comunità virtuale delle piccole e medie imprese e degli artigiani pugliesi” funded by Apulian Regional Government;
- 2001 Coordinator of one track of the project “RINTUR – Ricerca e Innovazione nel Turismo” funded by the Italian Ministry of University and Research.

***Participant to research projects***

- 2017 Research project “SmartBench – Sviluppo di una Smart Platform per la sicurezza integrata degli stabilimenti industriali ad Alta Affidabilità” funded by INAIL – BRIC 2016;
- 2016-2017 Research project “SODYRA – Smart Objects a supporto di una Dynamic Risk Analysis in ambienti di lavoro intelligenti” funded by INAIL – BRIC 2015;
- 2014-2015 Research project “Smart waste. Sistema intelligente per la gestione efficace e in sicurezza dei rifiuti solidi urbani” funded by Apulian Regional Government – Living Labs;
- 2007-2008 Research project “SIGeSMU – Sistema Intelligente per la Gestione sostenibile della mobilità urbana” funded by Apulian Regional Government.

***Tutorship and thesis***

- Tutor of n° 5 research grants;
- Supervisor of over 50 graduate and undergraduate thesis.

**PAPERS AND BOOKS**

***Papers (Ingegneria Economico-Gestionale)***

- 2018 V. Elia, M.G. Gnoni, & F. Tornese. “Improving logistic efficiency of WEEE collection through dynamic scheduling using simulation modeling”. *Waste Management*, 72, 78-86.
- 2017 V. Elia, M.G. Gnoni, & F. Tornese. “Measuring circular economy strategies through index methods: A critical analysis”. *Journal of Cleaner Production*, 142, 2741-2751.
- 2016 V. Elia, M.G. Gnoni, A. Lanzilotto. “Evaluating the application of augmented reality devices in manufacturing from a process point of view”. *Expert Systems With Applications*, 63, 187-197.
- 2015 V. Elia, M.G. Gnoni. “Designing an effective closed loop system for pallet management”. *International Journal of Production Economics*, 170(Part C), 730-740.
- 2015 S. Andriulo, V. Elia, M.G. Gnoni. “Mobile self-checkout systems in the FMCG retail sector: A comparison analysis”. *International Journal of RF Technologies: Research and Applications*, 6(4), 207-224.

- 2015 V. Elia, M.G. Gnoni. "How to design and manage WEEE systems: A multi-level analysis". *International Journal of Environment and Waste Management*, 15(3), 271-294.
- 2015 V. Elia, M.G. Gnoni, F. Tornese. "Designing Pay-As-You-Throw schemes in municipal waste management services: A holistic approach". *Waste Management*, 44, 188-195.
- 2015 V. Duraccio, M.G. Gnoni, V. Elia. "Carbon capture and reuse in an industrial district: A technical and economic feasibility study". *Journal of CO2 Utilization*, 10, 23-29.
- 2014 F. De Felice, V. Elia, M.G. Gnoni, A. Petrillo. "Comparing environmental product footprint for electronic and electric equipment: a multi-criteria approach". *International Journal of Sustainable Engineering*, 7(4), 360-373.
- 2013 V. Elia and M.G. Gnoni. "Pervasiveness of RFID technology: A survey based on case studies analysis". *International Journal of RF Technologies: Research and Applications*, 5(1-2), 41-61.
- 2013 M.G. Gnoni and V. Elia. "An environmental sustainability analysis in the printing sector". *International Journal of Sustainable Engineering*, 6(3), 188-197.
- 2012 M.G. Gnoni, V. Elia and A. Rollo. "RFID technology for an intelligent public transport network management". *International Journal for RF Technologies: Research and Applications*, 3(1), 1-13.
- 2011 M.G. Gnoni, V. Elia and G. Lettera. "A strategic quantitative approach for sustainable Energy production from biomass". *International Journal of Sustainable Engineering*, 4(2), 127-135.
- 2005 V. Elia "Analisi comparata del sistema scientifico italiano e alcune indicazioni di policy". *L'Industria*, n. 2, 361-380.
- 2004 V. Elia. "Le performance innovative del sistema industriale italiano: confronto con gli altri paesi industrializzati e implicazioni di policy". *Economia e Politica Industriale*, n. 124, 115-148.
- 2002 E. Damiani, V. Elia and M. Madravio. "Special issue: First European Workshop on XML and Knowledge Management best practices". *ACM SIGAPP Applied Computing Review*, Volume 10, Issue 1.
- 2001 A. Romano, G. Passiante and V. Elia. "New sources of clustering in the Digital Economy". *Journal of Small Business & Enterprise Development*, 8(1), 19-27.
- 2000 G. Passiante and V. Elia. "L'emergere di un nuovo spazio competitivo nell'economia digitale". *Rivista Italiana di Ragioneria e di Economia Aziendale*, n.3-4.

### **Books**

- 2009 V. Elia, S. Frisullo e L. Sechi, "Oltre il deserto. Il caso Puglia e la sfida della modernizzazione", *Palomar*, Bari.
- 2003 G. Passiante, V. Elia and T. Massari (Eds.) "Digital Innovation. Innovation processes in Virtual Clusters and Digital Regions", *Imperial College Press*, London.
- 2001 A. Romano, V. Elia and G. Passiante (Eds.) "Creating Business Innovation Leadership", *Edizioni Scientifiche Italiane*, Napoli.
- 2000 G. Passiante, V. Elia e T. Massari (a cura di) "Net Economy: Approcci interpretativi e modelli di sviluppo regionale", *Cacucci Editore*, Bari.

### **Conferences**

- 2016 M.G. Gnoni, V. Elia, P.A. Bragatto. *An IOT-based system to prevent injuries in assembly line production systems*. IEEE International Conference on Industrial Engineering and Engineering Management. 2016-December, 7798206, pp. 1889-1892.
- 2016 V. Duraccio, V. Elia, A. Forcina. *An effective model for ergonomic optimization applied to a new automotive assembly line*. In: AIP Conference Proceedings. vol. 1738, p. 1738-1741, Tripolis: Simos T.E., Tsitoras C., Simos T.E., ISBN: 978-073541392-4, Rhodos, Greece, 23-29 september 2015, doi: 10.1063/1.4952050.
- 2016 V. Elia, M.G. Gnoni, F. Tornese. *Assessing the Efficiency of a PSS Solution for Waste Collection: A Simulation Based Approach*. Procedia CIRP. Product-Service Systems across Life Cycle, Bergamo (Italy) 20-21 June 2016;
- 2015 V. Duraccio, V. Elia, A. Forcina. *An activity based costing model for evaluating effectiveness of RFID technology in pallet reverse logistics system*. AIP Conference Proceedings, 1648. ICNAAM 2014, 12th International Conference of Numerical Analysis and Applied Mathematics, 22-28 september Rhodos Greece.
- 2014 V. Elia. M.G. Gnoni, A. Lanzilotto. *Designing and managing operations in innovative multi-channel retailing systems*. Proceedings of the Summer School Francesco Turco 09-12-September-2014, pp. 37-42.

- 2014 F. Tornese, M. Holgado, M.G. Gnoni, M. Macchi, V. Elia. *A systematic framework for defining environmental performance metrics for industrial services*. Proceedings of the XIX Summer School “Francesco Turco”, Senigallia (AN), 09/2014.
- 2002 V. Elia. *Regional Innovation in the Digital Economy: An Holistic Conceptual framework*. 42nd ERSA Conference From Industry to Advanced Services: Perspectives of European Metropolitan Region, Dortmund 27th – 31st August, 2002.
- 2000 G. Passiante and V. Elia. *A model of connectivity for regional development in the learning economy*. 40th ERSA Conference on European Monetary Union and Regional Policy, Barcellona 29th August – 1st September, 2000.
- 2000 A. Romano, G. Passiante and V. Elia. *Modelling growth clusters in the new Web Economy*. 45th International Conference on Small Business (ICSB) World Conference 2000, Brisbane (Australia) 7-10 June, 2000.
- 1999 A. Romano, G. Passiante and V. Elia. *Virtual districts in the digital economy*. 22nd ISBA Small Firms Policy and Research Conference: Small firms: European Strategies, Growth and Development, Leeds 17-19 November, 1999.
- 1999 G. Passiante and V. Elia. *A re-thinking of the agglomeration economies in the digital economy*. RSA International Conference, Bilbao 18-21 September, 1999.
- 1999 A. Romano, G. Passiante and V. Elia. *The Web Economy: towards a new spatial context for learning and innovation processes in the business environment*. Regional Science Association 39th European Congress, Dublino 23-27 August, 1999.

#### **Chapters on books**

- 2010 V. Elia, M.G. Gnoni and A. Rollo. “RFID applications in the supply chain: an evaluation framework”. In: Gunasekaran A. and Sandhu M. *Handbook of Business Information Systems*, pp. 737-761, World Scientific Publishing Company, Singapore, ISBN: 9789812836052;
- 2008 V. Elia. “Il futuro dell’energia in Puglia tra visione e realtà”. In: La Scala M., Sileo A. *Quale energia per la Puglia?* pp. 149-156, Cacucci Editore, Bari, ISBN: 9788884228130;
- 2004 V. Elia. “The virtualness strategy of the e-Business Management School”, in P. Andriani and G. Passiante (Eds.) *Complexity Theory and the Management of Networks*, Imperial College Press, London;
- 2003 V. Elia. “A strategy to sustain the development processes of a Smart Community in the Digital Economy”, in G. Passiante, V. Elia and T. Massari (Eds.) *Digital Innovation. Innovation processes in Virtual Clusters and Digital Regions*, Imperial College Press, London;
- 2003 G. Passiante and V. Elia. “Knowledge Leadership to drive digital innovation”, in G. Passiante, V. Elia and T. Massari (Eds.) *Digital Innovation. Innovation processes in Virtual Clusters and Digital Regions*, Imperial College Press, London;
- 2001 V. Elia and G. Passiante. “Setting the framework for Business Innovation Leadership”, in A. Romano, V. Elia and G. Passiante (Eds.) *Creating Business Innovation Leadership*, Edizioni Scientifiche Italiane, Napoli;
- 2001 G. Passiante, V. Elia and T. Massari. “Incubating Business Innovation Leadership: the eBMS experiment”, in A. Romano, V. Elia and G. Passiante (Eds.) *Creating Business Innovation Leadership*, Edizioni Scientifiche Italiane, Napoli;
- 2001 V. Elia and A. Corallo. “Towards the Virtual BMS”, in A. Romano, V. Elia and G. Passiante (Eds.) *Creating Business Innovation Leadership*, Edizioni Scientifiche Italiane, Napoli;
- 2000 V. Elia. “Un modello di connettività abilitante lo sviluppo regionale nella Net Economy”, in G. Passiante, V. Elia e T. Massari (a cura di) *Net Economy: Approcci interpretativi e modelli di sviluppo regionale*, Cacucci Editore, Bari.

#### **Papers of High Energy Physics**

1. M. Adinolfi et al. “The KLOE Drift Chamber VCI 2001”, Nucl. Instrum. Meth. A 478:138-141, 2002.
2. M. Adinolfi et al. “The KLOE Trigger System”, Nucl. Instrum. Meth. A 461: 465-469, 2001.
3. T. Alexopoulos et al., “Hadroproduction of the CHI(1) and CHI(2) states of charmonium in 800-GEV/C proton-silicon interactions”, Phys. Rev. D 62, 2000.
4. M. Adinolfi et al. “The KLOE experiment at DAPHNE”, Nucl. Phys. A 663: 1103-1106, 2000.
5. T. Alexopoulos et al., “Measurement of the bb Cross Section in 800 GeV/c Proton-Silicon Interactions”, Phys. Rev. Lett. 82, 41 (1999).

6. A. Andryakov et al., "Results from the full-length prototype of the KLOE Drift Chamber", Nucl. Instr. and Meth. A 409, 84 (1998).
7. A. Andryakov et al., "Electrostatic digital method of wire tension measurement for KLOE drift chamber", Nucl. Instr. and Meth. A 409, 63 (1998).
8. A. Andryakov et al., "The construction of the KLOE Drift Chamber: present status", Nucl. Instr. and Meth. A 409, 87 (1998).
9. A. Andryakov et al., "dE/dx measurement in a He-based gas mixture", Nucl. Instr. and Meth. A 409, 390 (1998).
10. A. Andryakov et al., "The full-length prototype of the KLOE drift chamber", Nucl. Instr. and Meth. A 404, 248 (1998).
11. G. Cataldi et al., "Straight tracks reconstruction in all stereo drift chambers", Nucl. Instr. and Meth. A 388, 127 (1997).
12. T. Alexopoulos et al., "Differential cross sections of  $J/\psi$  and  $\psi'$  in 800 GeV/c p-Si interactions", Phys. Rev. D 55, 3927 (1997).
13. V. Elia, "The stringing of the KLOE Drift Chamber at DAΦNE", Nucl. Phys. B (Proc. Suppl.) 54B, 66 (1997).
14. S. Dell'Agnello et al., "Status of the construction of the KLOE Drift Chamber", Nucl. Phys. B (Proc. Suppl.) 54B, 57 (1997).
15. S. Spagnolo et al., "The full scale prototype of the KLOE Drift Chamber at DAΦNE", Nucl. Phys. B (Proc. Suppl.) 54B, 70 (1997).
16. F. Lacava et al., "Test of a small KLOE drift chamber prototype in magnetic field", Nucl. Phys. B (Proc. Suppl.) 54B, 327 (1997).
17. F. Bossi et al., "The trigger and data acquisition system of the KLOE", Nucl. Instr. and Meth. A 379, 536 (1996).
18. A. Andryakov et al., "The KLOE drift chamber", Nucl. Instr. and Meth. A 379, 414 (1996).
19. T. Alexopoulos et al., "Search for the Flavor Changing Neutral Current Decay  $D_0 \rightarrow \pi^+ \pi^-$  in 800 GeV Proton-Silicon Interactions", Phys. Rev. Lett. 77, 2380 (1996).
20. T. Alexopoulos et al., "The Fermilab E771 spectrometer: A large aperture spectrometer to study charm and beauty states as detected by decays into muons", Nucl. Instr. and Meth. A 376, 375 (1996).
21. T. Alexopoulos et al., "Production of  $J/\psi$ ,  $\psi'$  and  $\chi$  in 800 GeV/c proton-silicon interactions", Phys. Lett. B 374, 271 (1996).
22. F. Grancagnolo et al., "Full scale prototype of the KLOE drift chamber", Nucl. Instr. and Meth. A 367, 108 (1995).
23. A. Calcaterra et al., "The KLOE drift chamber", Nucl. Instr. and Meth. A 367, 104 (1995).
24. L. Antoniazzi et al., "FNAL E771 RPC muon trigger", Nucl. Instr. and Meth. A 360, 334 (1995).
25. G. Finocchiaro et al., "The KLOE tracking chamber", Nucl. Instr. and Meth. A 360, 48 (1995).
26. L. Antoniazzi et al., "FNAL E771 fast muon trigger", Nucl. Instr. and Meth. A 355, 320 (1995).
27. G. Cataldi et al., "Performance of the E771 RPC muon detector at Fermilab", Nucl. Instr. and Meth. A 337, 350 (1994).
28. T. Alexopoulos et al., "Effects of high energy protons on the E771 silicon microstrips detector", Radiat. Phys. Chem. 41, No. 1/2, 427 (1993).
29. T. Alexopoulos et al., "B physics at FNAL E771", Nucl. Phys. B (Proc. Suppl.) 27, 257 (1992).

Lecce, Settembre 2018

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