

João Pimentão
Researcher, Assistant Professor
DEE - Departamento de Engenharia Electrotécnica e de Computadores
CTS - Centro de Tecnologia e Sistemas
UNINOVA-Instituto de Desenvolvimento de Novas Tecnologias
DEE2010-C1 Sistemas Digitais e Percepcionais
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Research interests

Complex Systems, Security, E-commerce, Knowledge Discovery, and Sensory Systems, Knowledge Transfer.

Researcher/coordinator of multiple European Union R&D projects and ESA - European Space Agency projects.

Qualifications

Engenharia Electrotécnica. Especialidade: Sistemas de Informação Industriais, Doctorate, Comunicação Segura Sem Recurso a Cifra, Universidade NOVA de Lisboa
Award Date: 1 Jan 2006

Employment

Assistant Professor

DEE - Departamento de Engenharia Electrotécnica e de Computadores
Universidade NOVA de Lisboa
Portugal
1 Jan 1990 → present

Researcher

CTS - Centro de Tecnologia e Sistemas
Universidade NOVA de Lisboa
Portugal
1 Jan 1985 → present

Researcher

UNINOVA-Instituto de Desenvolvimento de Novas Tecnologias
Universidade NOVA de Lisboa
1 Jan 1985 → present

Assistant Professor

DEE2010-C1 Sistemas Digitais e Percepcionais
Universidade NOVA de Lisboa
Portugal
1 Jan 1990 → present

Secretary of the General Assembly

EPL - European Project Leaders' Network Society
Portugal
15 Mar 2016 → present

Research output

Clinical factors influencing long-term survival in a real-life cohort of early stage non-small-cell lung cancer patients in Spain

Torrente, M., Sousa, P. A., Guerreiro, G. R., Franco, F., Hernández, R., Parejo, C., Sousa, A., Campo-Cañaverl, J. L., Pimentão, J. & Provencio, M., 2023, In: *Frontiers in Oncology*. 13, 12 p., 1074337.

Determination of essential biomarkers in lung cancer: a real-world data study in Spain with demographic, clinical, epidemiological and pathological characteristics

Provencio, M., Cobo, M., Rodriguez-Abreu, D., Calvo, V., Carcereny, E., Cantero, A., Bernabé, R., Benitez, G., Castro, R. L., Massutí, B., del Barco, E., García Campelo, R., Guirado, M., Camps, C., Ortega, A. L., González Larriba, J. L., Sánchez, A., Casal, J., Sala, M. A., Juan-Vidal, O., & 11 others Bosch-Barrera, J., Oramas, J., Dómine, M., Trigo, J. M., Blanco, R., Calzas, J., Morilla, I., Padilla, A., Pimentão, J., Sousa, P. A. & Torrente, M., Dec 2022, In: *BMC Cancer*. 22, 1, 11 p., 732.

An Artificial Intelligence-Based Tool for Data Analysis and Prognosis in Cancer Patients: Results from the Clarify Study

Torrente, M., Sousa, P. A., Hernández, R., Blanco, M., Calvo, V., Collazo, A., Guerreiro, G. R., Núñez, B., Pimentao, J., Sánchez, J. C., Campos, M., Costabello, L., Novacek, V., Menasalvas, E., Vidal, M. E. & Provencio, M., Aug 2022, In: *Cancers*. 14, 16, 10 p., 4041.

Association of quality of life with performance status, circadian rhythm, and activity level of lung cancer patients using wearable devices as ambulatory monitoring

Torrente, M., Sousa, P. A., Franco, F., Mensalvas, E., Calvo, V., Collazo, A., Parejo, C., Campos, M., Pimentão, J. & Provencio, M., 1 Jul 2022, In: *Clinical medicine (London, England)*. 22, p. 36-37 2 p.

Understanding prognosis and survival outcomes in patients with early-stage non-small-cell lung cancer

Torrente, M., Sousa, P. A., Franco, F., Guerreiro, G., Sousa, A., Parejo, C., Pimentao, J. & Provencio, M., 1 Jul 2022, In: *Clinical medicine (London, England)*. 22, p. 38-40 3 p.

Chronodisruption and Ambulatory Circadian Monitoring in Cancer Patients: Beyond the Body Clock

Almáida-Pagan, P. F., Torrente, M., Campos, M., Provencio, M., Madrid, J. A., Franco, F., Morilla, B. R., Cantos, B., Sousa, P. A., Madrid, M. J. M., Pimentão, J. & Rol, M. Á., Feb 2022, In: *Current Oncology Reports*. 24, 2, p. 135-149

To burn-out or not to burn-out: A cross-sectional study in healthcare professionals in Spain during COVID-19 pandemic

Torrente, M., Sousa, P. A. C., Sánchez-Ramos, A., Pimentão, J., Royuela, A., Franco, F., Collazo-Lorduy, A., Menasalvas, E. & Provencio, M., 24 Feb 2021, In: *BMJ Open*. 11, 2, e044945.

Indoor temperature prediction in an IoT scenario

Monteiro, P. L., Zanin, M., Ruiz, E. M., Pimentão, J. & Sousa, P. A. D. C., 1 Nov 2018, In: *Sensors (Switzerland)*. 18, 11, 3610.

Smart sensor data acquisition in trains

Pereira, A., Pimentão, J. P., Sousa, P. & Onofre, S., 15 Dec 2017, *Proceedings IECON 2017 - 43rd Annual Conference of the IEEE Industrial Electronics Society*. Institute of Electrical and Electronics Engineers (IEEE), Vol. 2017-January. p. 5598-5603 6 p.

Data Fusion of Georeferenced Events for Detection of Hazardous Areas

Onofre, S., Gomes, J., Pimentao, J. P. & Sousa, P. A., 2017, p. 81-89. 9 p.

Biometric access control systems: A review on technologies to improve their efficiency

Duarte, T., Pimentao, J. P., Sousa, P. & Onofre, S., 21 Nov 2016, *Proceedings - 2016 IEEE International Power Electronics and Motion Control Conference, PEMC 2016*. Institute of Electrical and Electronics Engineers (IEEE), p. 795-800 6 p. 7752095

Surpassing bluetooth low energy limitations on distance determination

Onofre, S., Silvestre, P. M., Pimentao, J. P. & Sousa, P., 21 Nov 2016, *Proceedings - 2016 IEEE International Power Electronics and Motion Control Conference, PEMC 2016*. Institute of Electrical and Electronics Engineers (IEEE), p. 843-847 5 p. 7752104

Context integration in reliability assessment for service robots

Ferreira, T. C., Sousa, P., Barata, J. & Pimentao, J. P., 5 Jan 2016, *ISMA 2015 - 10th International Symposium on Mechatronics and its Applications*. Institute of Electrical and Electronics Engineers (IEEE), 7373496

Using Fuzzy Logic to Improve BLE Indoor Positioning System

Onofre, S., Caseiro, B., Pimentão, J. P. & Sousa, P., 2016, *Technological Innovation for Cyber-Physical Systems: 7th IFIP WG 5.5/SOCOLNET Advanced Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2016, Costa de Caparica, Portugal, April 11-13, 2016, Proceedings*. Camarinha-Matos, M. L., J. Falcão, A., Vafaei, N. & Najdi, S. (eds.). Cham: Springer International Publishing AG, p. 169-177 9 p.

Multi-sensor geo-referenced surveillance system

Onofre, S., Sousa, P. & Pimentão, J. P., 1 Dec 2015, *Mechatronics and its Applications (ISMA), 2015 10th International Symposium on*. IEEE. (ed.). Sharjah, p. 1-6 6 p.

Context Classifier for Service Robots

Ferreira, T., Miranda, F., Sousa, P., Barata, J. & Pimentao, J., 2015, *DoCEIS 2015: Technological Innovation for Cloud-Based Engineering Systems*. CamarinhaMatos, LM., Baldissera, TA., DiOrio, G. & Marques, F. (eds.). Cham: SPRINGER-VERLAG BERLIN, p. 196-203 8 p. (IFIP Advances in Information and Communication Technology; vol. 450).

Georeferenced Dynamic Event Handling

Onofre, S., Pimentão, J. P. & Sousa, P., 2015, *Technological Innovation for Cloud-Based Engineering Systems: 6th IFIP WG 5.5/SOCOLNET Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2015, Costa de Caparica, Portugal, April 13-15, 2015, Proceedings*. Camarinha-Matos, M. L., Baldissera, A. T., Di Orio, G. & Marques, F. (eds.). Cham: Springer International Publishing AG, p. 251-258 8 p.

Autonomous robot integration in surveillance system: Architecture and communication protocol for systems cooperation

Claro, J., Dias, B., Rodrigues, B., Pimentao, J. P., Sousa, P. & Onofre, S., 9 Dec 2014, *Power Electronics and Motion Control Conference and Exposition (PEMC), 2014 16th International*. p. 713-719 7 p. 6980581

Architecture and Message Protocol Proposal for Robot's Integration in Multi-Agent Surveillance System

Dias, B., Rodrigues, B., Claro, J., Pimentão, J., Sousa, P. & Onofre, S., 2014, *Rough Sets and Current Trends in Computing: 9th International Conference, RSCTC 2014, Granada and Madrid, Spain, July 9-13, 2014. Proceedings*. Cornelis, C., Kryszkiewicz, M., Ślzak, D., Ruiz, E., Bello, R. & Shang, L. (eds.). Springer International Publishing, Vol. 8536. p. 366-373 8 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 8536 LNAI).

Geo-referenced multi-agent architecture for surveillance

Onofre, S., Sousa, P. & Pimentao, J. P., 2014, *Power Electronics and Motion Control Conference and Exposition (PEMC), 2014 16th International*. p. 455-460 6 p.

Review on Context Classification in Robotics

Miranda, F., Cabral Ferreira, T., Pimentão, J. P. & Sousa, P., 2014, *Rough Sets and Intelligent Systems Paradigms: Second International Conference, RSEISP 2014, Held as Part of JRS 2014, Granada and Madrid, Spain, July 9-13, 2014. Proceedings*. Kryszkiewicz, M., Cornelis, C., Ciucci, D., Medina-Moreno, J., Motoda, H. & Ra, Z. W. (eds.). Cham: Springer International Publishing, p. 269-276 8 p. (Lecture Notes in Computer Science; vol. 8537).

Terrain assessment for service robots

Barata Oliveira, J. A., Pimentão, J. P. B., DEE Group Author & Sousa, P. A. D. C., 1 Jan 2011, *IEEE Industrial Electronics Society*. Vol. -. p. 301-306

Where evolvable production systems meet complexity science

Barata Oliveira, J. A. & Pimentão, J. P. B., 1 Jan 2011, *2011 IEEE International Symposium on Assembly and Manufacturing (ISAM)*. p. 1 - 6

SEISOP: A System Enabling Space Weather Services for Space Missions

Pimentão, J. P. B. & DEE Group Author, 1 Jan 2010, *AIAA-2010-2090*. p. 1-5

Space Environment Information System to support Satellite Operations

Pimentão, J. P. B., 1 Jan 2010, *60TH INTERNATIONAL ASTRONAUTICAL CONGRESS*. p. 1-10

Agent-based communication security

Pimentão, J. P., Sousa, P. A. C., Amaral, P. & Steiger-Garção, A., 1 Dec 2004, In: *Lecture Notes in Artificial Intelligence (Subseries of Lecture Notes in Computer Science)*. 3187, p. 73-84 12 p.

Agent based web content categorization

Sousa, P. A. C., Pimentão, J. P., Santos, B. R. D. & Garção, A. S., 1 Jan 2003, *Proceedings of the 10th ISPE International Conference on Concurrent Engineering Research and Application, Enhanced Interoperable Systems*. Cha, J., Jardim-Goncalves, R. & Steiger-Garcao, A. (eds.). A.A.Balkema Publishers, p. 143-150 8 p.

Seeking intelligent product development - an integrator environment based on STEP

Sousa, P., Jardim-Gonçalves, R., Pimentão, J. P., Pamiés-Teixeira, J. & Steiger-Garção, A., 1 Jan 1999, In: *Journal of Intelligent Manufacturing*. 10, 3, p. 313-321 9 p.

Integration of planning and control activities for building and construction: Experiencing standards

Jardim-Gonçalves, R., Sousa, P., Pimentão, J. P., Steiger-Garção, A., Grilo, A. & Tadeu, L., 1999, *Durability of Building Materials and Components 8, Vols 1-4, Proceedings*. Lacasse, M. A. & Vainer, D. J. (eds.). p. 2180-2188

Seeking compatibility between product data libraries for the furniture industry

Jardim-Goncalves, R., Sousa, P., Pimentao, J. & Steiger-Garção, A., 1999, *LARGE SCALE SYSTEMS: THEORY AND APPLICATIONS 1998 (LSS'98)*. Koussoulas, N. T. & Groumpos, P. P. (eds.). Pergamon Press Ltd., Vol. 1. p. 511-515

Integrating manufacturing systems using ISO 10303 (STEP): An overview of UNINOVA projects

Jardim-Gonçalves, R., Sousa, P. C., Pimentão, J. B. & Steiger-Garção, A., 1998, In: *International Journal of Computer Applications in Technology (IJCAT)*. 12, 1, p. 39-45 7 p.

The RoadRobot project: From theory to practice in systems in integration

Pimentão, J. P., Jardim-Gonçalves, R., Gonçalves, T., Silva, H., Vital, M., Sousa, P. & Garção, A., 1996, *Balanced Automation Systems ii: Implementation Challenges for Anthropocentric Manufacturing*. Camarinha-Matos, L. M. & Afsarmanesh, H. (eds.). Springer US, p. 126-133 (IFIP Advances in Information and Communication Technology).

Awards

COSMOS: Cost Adaptative Factory based on Modular Self-contained Factory Units

Pimentão, J. & Sousa, P. A. D. C.

Fundação para a Ciência e a Tecnologia

31/05/10 → 29/09/13