

# Curriculum Vitae – Romain Piquié

Associate Professor in Digitally Mediated Collaborative Engineering Systems Design  
Grenoble Institute of Technology - School of Industrial Engineering  
Laboratory of Design, Optimisation and Production - Collaborative & Integrated Design Research Group  
T: +33 (0) 6583 36305 - E: [r.piquie@gmail.com](mailto:r.piquie@gmail.com) - W: <http://rpinquie.github.io/>

Ph.D.-Ing. Romain Piquié is an Associate Professor in Digitally Mediated Systems Design at the School of Industrial Engineering of Grenoble Institute of Technology and a research fellow at the G-SCOP UMR CNRS Laboratory of Design, Optimisation and Production. His research concentrates on methods and tools for improving the quality of collaborative digitally-mediated design situations, which require a parsimonious combination of engineering design, simulation- and model-based systems engineering, computer-supported cooperative work, human-systems integration, human-model interaction including virtual and augmented reality, and artificial intelligence

**Keywords:** *Engineering Systems Design; Digitally Mediated Collaboration; New Product Development; Computer Supported Cooperative Work; Model-Based Systems Engineering; Human-Centered Design; Human-Systems Integration; eXtended Reality; Machin Learning; Natural Language Processing; Text Mining; Knowledge Engineering.*

## EDUCATION

2016 – Arts & Métiers ParisTech, LSIS UMR CNRS 7296, France – Ph.D in Product Design  
2012 – Cranfield University, School of Engineering, UK - M.Sc. in Computational Techniques in Engineering  
2012 – ESTIA Institute of Technology, France – 2012, M.Eng in Computer-Aided Engineering  
2009 – Preparatory classes for the national entrance examination to French engineering schools  
2006 – Toulouse 3 University, France – B.Sc. in Mechanical Engineering for Aerospace Technology

## POSITIONS HELD

2018 (Fall ) - present – Assistant professor, Grenoble Institute of Technology, France  
2018 (Winter) - 2018 (Fall) – Assistant professor, Arts & Métiers ParisTech – LSIS UMR CNRS, France  
2016 - 2017 (Fall) – Post-doctoral research fellow, Airbus Helicopters, France  
2013 (Fall) - 2016 (Fall) – Doctoral research fellow, Arts & Métiers ParisTech – LSIS UMR CNRS, France  
2013 (Winter) - 2013 (Fall) – Research engineer, Supméca – LISMMMA, France

## RESEARCH

## STUDENTS

**Ph.D. students (80 % of supervision of defended PhD thesis):**

- **Valentin Jousseau** (2022-2025)
  - **Supervisors:** Piquié (INPG) 30% - Segonds (ENSAM) 70%
  - **Thesis:** Digital adoption of engineering software: application to product lifecycle management
  - **Doctoral school:** SMI 442, Arts et Métiers ParisTech
  - **Funding:** French National Research Agency CIFRE project – partnership with KNOWMORE
- **Insaf Nahri** (2021-2024)

- **Supervisors:** **Pinquié (INPG) 30%** - Véron (ENSAM) 70 %
- **Thesis:** Artificial intelligence for extracting textual requirements from unstructured building specification documents and integration of formal requirements in a Building Information Modelling digital mock-up
- **Doctoral school:** SMI 442, Arts et Métiers ParisTech
- **Funding:** French National Research Agency CIFRE project – partnership with CSTB
- **Chao Zhang (2021-2024)**
  - **Supervisors:** **Pinquié (INPG) 30 %** - Paulette (ENSAM) 30% - Pernot (ENSAM) 40%
  - **Thesis title:** Deep learning for computer-aided reverse engineering of 3D parametric CAD models from 2D technical drawings
  - **Doctoral school:** SMI 442, Arts et Métiers ParisTech
  - **Funding:** China Scholarship Council
- **Abdelhadi Lammini (2021-2024)**
  - **Supervisors :** **Pinquié (INPG) 40 %** - Foucault (INPG) 40% - Noël (INPG) 20%
  - **Thesis title:** Mixed Reality for maintaining the geometrical coherence of a Digital Twin
  - **Doctoral school :** I-MEP<sup>2</sup>, Université Grenoble Alpes
  - **Funding:** French National Research Agency project – ANR PRC COHERENCE 4D.
- **Haobo Wong (2021-2024)**
  - **Supervisors:** **Pinquié (INPG) 75 %** - Noël (INPG) 25 %
  - **Thesis title:** An immersive virtual environment for the human-centric co-design of model-based system architectures
  - **Doctoral school :** I-MEP<sup>2</sup>, Université Grenoble Alpes.
  - **Funding:** French National Research Agency project – ANR JCJC ArchiTOOL
- **Victor Romero (2019-2022)**
  - Supervisors: **Pinquié (INPG) 50 %** - Noël (INPG) 50 %
  - Thesis title: An immersive multi-view virtual environment for model-based design reviews
  - Doctoral school: I-MEP<sup>2</sup>, Grenoble Alpes University
  - Funding: Scholarship from the I-MEP<sup>2</sup> doctoral school of Grenoble Alpes University
- **Armand Huet (2018-2022)**
  - Supervisors: **Pinquié (INPG) 30%** - Véron (ENSAM) 30 % - Segonds (ENSAM) 40 %
  - Thesis title: A context-aware cognitive design assistant
  - Doctoral school: SMI 442, Arts et Métiers ParisTech
  - Funding: Industrial contract, Capgemini
- **Simon Debord (2017-2018 *resignation*)**
  - Supervisors: **Pinquié (INPG) 30%** - Véron (ENSAM) 30 % - Segonds (ENSAM) 40 %
  - Thesis title: Research on a design rules framework
  - Doctoral school: Sciences des Métiers de l'Ingénieur 442, Arts et Métiers ParisTech.
  - Funding: Industrial contract, Capgemini

#### **Post-Doctoral research fellows:**

- **Yaroslav Menshenin (2022-2024)**
  - Supervisors: **Pinquié (INPG) 100%**
  - Research topic: Model-Based Systems Engineering for the development of new drug-device combination products.
  - Funding: Industrial contract, Becton Dickinson
- **Amer Ezoji (2019-2022)**
  - Supervisors: **Pinquié (INPG) 50%** - Boujut (INPG) 50 %

- Research topic: Knowledge capture and reuse for the design of Open Source Hardware products and related services
- Funding: H2020 Open!Next

#### M.Sc. Research students:

- **Manon Magendie (2023)**
  - Supervisors : **Pinquié (INPG) 50 %** - Segonds (ENSAM) 50 %
  - Thesis title: AI-based text and free-hand sketch analysis for assessing the additive manufacturability of product concepts during ideation workshops
- **Arthur Glotin (2022)**
  - Supervisors : **Pinquié (INPG) 50 %** - Segonds (ENSAM) 50 %
  - Thesis title: Free-hand sketch analysis for assessing the additive manufacturability of product concepts during ideation workshops
- **Oscar Fossey (2021)**
  - Supervisors: **Pinquié (INPG) 50%** - Segonds (ENSAM) 50%
  - Thesis title: Natural language processing for assessing the additive manufacturability of product concepts during ideation workshops
- **Hoa Tran Thi Than (2021)**
  - Supervisors : **Pinquié (INPG) 50%** - Foucault (INPG) 50%
  - Thesis title: 3D geometric modelling in virtual reality
- **Victor Romero (2019):**
  - Supervisors: **Pinquié (INPG) 50%** - Noël (INPG) 50%
  - Thesis title: A user-centric computer-aided verification process in a virtuality-reality continuum

## PROJECTS

- **Industrial contract Becton Dickinson (2022-2024)**
  - **Description:** This action research project will integrate various methodological engineering design elements into a model-based systems engineering framework (process, method, modelling method, modelling language, modelling software) to support the Advanced Drug Delivery Systems division of Becton Dickinson Medical Pharmaceutical Systems in the development of future new MedTech drug-device combination products.
  - **Coordinator:** Romain Pinquié, Grenoble Institute of Technology (Grenoble INP).
  - **Funding:** 120 000€ by Becton Dickinson – Medical Pharmaceutical Systems.
  - **Role:**
    - INP Coordinator
    - Coordinator of the professional training course on systems engineering
    - Member of the executive committee
    - Member of the steering committee
    - Postdoctoral research fellow supervisor
- **ANR EQUIPEX+ Continuum (2021-2031)**
  - **Description:** The CONTINUUM project will create a collaborative research infrastructure of 30 platforms located throughout France, to advance interdisciplinary research based on interactions between computer science and the human and social sciences. Thanks to CONTINUUM, 37 research teams will develop cutting-edge research programs focusing on

visualization, immersion, interaction and collaboration, as well as on human perception, cognition and behaviour in virtual/augmented reality. ([Website](#))

- **Coordinator:** Michel Beaudouin-Lafon, French National Research Council (CNRS).
- **Funding:** 13.6M€ by Investments of the Future national program.
- **Role:**
  - Member of the scientific committee
  - Member of the technology transfer committee
  - Member of the working group promoting education and professional training for XR

- **ANR PRC 2020 “Coherence4D” ANR-20-CE10-0002 (2021-2024)**

- **Description:** The COHERENCE 4D project will develop a new paradigm of modelling, visualisation, interaction, and coherence maintenance of the digital twin interfaced with the physical twin. Thus, the maintenance of coherence will be done in four dimensions to take into account the spatio-temporal character of the evolutions: the digital twin modelled in three dimensions (3D) adapts to the temporal evolutions (4<sup>th</sup> dimension) of the physical twin. ([Website](#))
- **Coordinator:** Jean-Philippe Pernot, Arts et Métiers ParisTech.
- **Funding:** 623 188€ by the French National Research Agency (ANR).
- **Role:**
  - Scientific coordinator of the work package 5 “integration and validation”
  - Ph.D co-supervisor

- **ANR JCJC 2020 “ArchiTool” ANR-20-CE10-0010 (2021-2024)**

- **Description:** The project ArchiTOOL aims at inventing, prototyping, and evaluating an immersive and intelligent virtual environment for collaboratively designing the architecture of engineered systems. Instead of using domain-specific engineering software, the immersive and interactive environment will provide the architect with the modelling capabilities required to define the various views (operational, specification, functional, behavioural, structural, logic, safety, etc.) of a system architecture in a single virtual space before exporting each viewpoint in a standardised format that will enable domain-experts to continue with a detailed design. Moreover, the immersive environment will include a cognitive agent to support the system architect with intelligent capabilities: model verification, context-aware recommendation of rules, identification and automation of modelling routines. ([Website](#))
- **Coordinator:** Romain Pingué, Grenoble Institute of Technology (Grenoble INP).
- **Funding:** 172 502€ by the French National Research Agency (ANR).
- **Role:**
  - Coordinator
  - Ph.D. co-supervisor

- **Horizon 2020 “Open!Next” (2019-2022)**

- **Description:** OPEN!NEXT enables SMEs to engage in company-community collaboration for means of co-development and market exploitation of Open Source Hardware (OSH) products and related services. OPEN!NEXT builds upon the vision that SMEs are the best placed to release the formidable potential of OSH in terms of product innovation and business incubation. The project aims to establish a company-community ecosystem, facilitate the engagement of SMEs in efficient collaboration with OSH communities and open up new avenues for value creation. ([Website](#))

- **Coordinator:** Robert Mies, Technische Universität Berlin.
- **Funding:** 5,8M€ by the European Union's Horizon 2020 research and innovation programme.
- **Role:**
  - Member of the steering committee
  - Postdoctoral research fellow co-supervisor

## PUBLICATIONS

### Theses

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[1] R. Piquié. (2016) **A requirement mining framework**. Ph.D. Thesis. Arts & Métiers ParisTech. LSIS UMR CNRS 7296 Laboratory. Aix-en-Provence, France.

[2] R. Piquié. (2012) **Prognostics and health management design technology: research on the application of functional modelling to structural integrity problems**. M.Sc. Thesis. Cranfield University. School of Engineering. Applied Mathematics & Computing Group. Cranfield, United Kingdom.

### Refereed Journal Articles (8 publications)

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[8] R. Piquié, O. Fossey, F. Segonds. (2022) **DREAM: a design assistant for assessing additive manufacturability**. In *International Journal of Product Lifecycle Management (IJPLM)*, Vol. 14, No. 5, pp. 328-349, 2022.

DOI: <https://doi.org/10.14733/cadaps.2022.1184-1190>

[7] V. Romero, R. Piquié, F. Noël. (2022) **A user-centric computer-aided verification process in a virtuality-reality continuum**. In *Computers in Industry*, Vol. 140, 2022.

DOI: <https://doi.org/10.1016/j.compind.2022.103678>

[6] T.T.H. Thanh, G. Foucault, R. Piquié. (2022) **Benchmarking of 3D modelling in virtual reality**. In *Computer-Aided Design and Applications (CADA)*, Vol. 19, No. 6, pp. 1184-1190, 2022.

DOI: <https://doi.org/10.14733/cadaps.2022.1184-1190>

[5] A. Huet, R. Piquié, P. Véron, F. Segonds, V. Fau. (2022) **Design rules application in manufacturing industries: a state-of-the-art survey and proposal of a context-aware approach**. In *International Journal on Interactive Design and Manufacturing (IJDeM)*, Vol. 16, pp. 317-322, 2022.

DOI: <https://doi.org/10.1007/s12008-021-00821-w>

[4] A. Huet, F. Segonds, R. Piquié, P. Véron, J. Guegan, A. Mallet. (2021) **Context-aware cognitive design assistant: Implementation and study of design rules recommendations**. In *Advanced Engineering Informatics*, Vol. 50, 2021.

DOI: <https://doi.org/10.1016/j.compind.2020.103377>

[3] A. Huet, R. Piquié, P. Véron, A. Mallet, F. Segonds, N. Croué. (2020) **CACDA: A knowledge graph for a context-aware cognitive design assistant**. In *Computers in Industry*, Vol. 125, 2020.

DOI: <https://doi.org/10.1016/j.compind.2020.103377>

[2] R. Piquié, P. Véron, F. Segonds, N. Croué. (2016) **Requirement mining for model-based product design**. In *International Journal of Product Lifecycle Management*, Vol. 9, No. 4, pp. 305-332, 2016.

DOI: [10.1504/IJPLM.2016.080983](https://doi.org/10.1504/IJPLM.2016.080983)

[1] **R. Pinquié**, L. Rivest, F. Segonds, P. Véron. **An illustrated glossary of ambiguous terms used in discrete manufacturing**. In *International Journal of Product Lifecycle Management*, Vol. 8, No. 2, pp. 142-171, 2015.

DOI: <https://doi.org/10.1504/IJPLM.2015.070580>

## Refereed International Conference Papers (19 publications)

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[19] Y. Menshenin, **R. Pinquié**, C. Pierre (2023) **New product development process for MedTech combination products**. 24<sup>th</sup> International Conference on Engineering Design (ICED), Bordeaux, France, July 24-28, 2023.

DOI: xxx

[18] **R. Pinquié**, H. Wang, F. Noël (2023) **Human-centric co-design of model-based system architecture**. 33<sup>rd</sup> CIRP Design Conference, Sydney, Australia, May 17-19, 2023. In *Procedia CIRP*. Vol. x, pp. x-x, 2023.

DOI: xxx

[17] A. Huet, **R. Pinquié**, F. Segonds, P. Véron (2023) **A cognitive design assistant for context-aware computer-aided design**. 33<sup>rd</sup> CIRP Design Conference, Sydney, Australia, May 17-19, 2023. In *Procedia CIRP*. Vol. x, pp. x-x, 2023.

DOI: xxx

[16] V Romero, **R. Pinquié**, F Noël. (2022) **An open benchmark exercise for model-based design reviews**. In: Noël, F., Nyffenegger, F., Rivest, L., Bouras, A. (eds) *Product Lifecycle Management. PLM in Transition Times: The Place of Humans and Transformative Technologies*. PLM 2022. IFIP Advances in Information and Communication Technology, vol 667. Springer, Cham.

DOI: [https://doi.org/10.1007/978-3-031-25182-5\\_18](https://doi.org/10.1007/978-3-031-25182-5_18)

[15] A. Lammini, **R. Pinquié**, G. Foucault, F. Noël. (2022) **Geometric coherence of a digital twin: a discussion**. In: Noël, F., Nyffenegger, F., Rivest, L., Bouras, A. (eds) *Product Lifecycle Management. PLM in Transition Times: The Place of Humans and Transformative Technologies*. PLM 2022. IFIP Advances in Information and Communication Technology, vol 667. Springer, Cham. [https://doi.org/10.1007/978-3-031-25182-5\\_23](https://doi.org/10.1007/978-3-031-25182-5_23)

[17] R. Pinquié, V. Romero, F. Noël. (2022) **Survey of model-based design review: practices and challenges**. 17th International Design Conference, Cavtat, Croatia, May 23-26, 2022.

DOI: [https://doi.org/10.1007/978-3-031-25182-5\\_23](https://doi.org/10.1007/978-3-031-25182-5_23)

[14] **R. Pinquié**, J. Le Duigou, L. Grimal, L. Roucoules. (2022) **On open science platform for benchmarking engineering design researches**. 32<sup>nd</sup> CIRP Design Conference, Gif-sur-Yvette, France, March 28-30, 2022. In *Procedia CIRP*. Vol. 109, pp. 472-477, 2022.

DOI: <https://doi.org/10.1016/j.procir.2022.05.280>

[13] R. Antoniou, **R. Pinquié**, J-F Boujut, A. Ezoji. (2021) **Identifying the factors affecting the replicability of open-source hardware designs**. 23<sup>rd</sup> International Conference on Engineering Design (ICED), Gothenburg, Sweden, August 16-20, 2021.

DOI: <https://doi.org/10.1017/pds.2021.443>

[12] V. Romero, **R. Piquié**, F. Noël. (2021) **An immersive virtual environment for reviewing model-centric designs**. 23<sup>rd</sup> International Conference on Engineering Design (ICED), Gothenburg, Sweden, August 16-20, 2021.

DOI: <https://doi.org/10.1017/pds.2021.45>

[11] A. Ezoji, J.-F. Boujut, **R. Piquié**. **Requirements for design reuse in open-source hardware: a state of the art**. 31<sup>st</sup> CIRP Design Conference, Enschede, Netherlands, May 18-21, 2021. In *Procedia CIRP*. Vol. 100, pp. 792-797, 2021.

DOI: <https://doi.org/10.1016/j.procir.2021.05.042>

[10] T.T.H. Tran, G. Foucault, **R. Piquié**. (2021) **Benchmarking of 3D modelling in virtual reality environments**. 21<sup>st</sup> annual International CAD Conference, Barcelona, Spain, July 5-7, 2021 (selected for the international journal Computer-Aided Design and Applications).

DOI: <https://doi.org/10.14733/cadconfP.2021.324-328>

[9] V. Romero, **R. Piquié**, F. Noël. (2021) **A computer-aided verification process for engineered systems**. Conférence Internationale Génie Industriel (CIGI) QUALITA, Grenoble, France, May 5-7, 2021 (selected for the international journal Computers in Industry).

[8] A. Huet, **R. Piquié**, F. Segonds, V. Fau. (2020) **Knowledge graph of design rules for a context-aware cognitive design assistant**. In: Nyffenegger F., Ríos J., Rivest L., Bouras A. (eds) Product Lifecycle Management Enabling Smart X. PLM 2020. IFIP Advances in Information and Communication Technology, vol 594. Springer, Cham.

DOI: [https://doi.org/10.1007/978-3-030-62807-9\\_27](https://doi.org/10.1007/978-3-030-62807-9_27)

[7] A. Ezoji, **R. Piquié**, J.-F. Boujut. (2020) **Towards a better understanding of open source hardware design reuse in company-community collaboration**. In: Roucoules L., Paredes M., Eynard B., Morer Camo P., Rizzi C. (eds) Advances on Mechanics, Design Engineering and Manufacturing III. JCM 2020. Lecture Notes in Mechanical Engineering. Springer, Cham.

DOI: [https://doi.org/10.1007/978-3-030-70566-4\\_24](https://doi.org/10.1007/978-3-030-70566-4_24)

[6] A. Huet, **R. Piquié**, P. Véron, F. Segonds, V. Fau. (2020) **Design rules application in manufacturing industries: a state-of-the-art survey and proposal of a context-aware approach**. In: Roucoules L., Paredes M., Eynard B., Morer Camo P., Rizzi C. (eds) Advances on Mechanics, Design Engineering and Manufacturing III. JCM 2020. Lecture Notes in Mechanical Engineering. Springer, Cham.

DOI: [https://doi.org/10.1007/978-3-030-70566-4\\_53](https://doi.org/10.1007/978-3-030-70566-4_53)

[5] **R. Piquié**, P. Véron, F. Segonds, T. Zynda. (2019) **A property graph data model for a context-aware design assistant**. In: Fortin C., Rivest L., Bernard A., Bouras A. (eds) Product Lifecycle Management in the Digital Twin Era. PLM 2019. IFIP Advances in Information and Communication Technology, vol 565. Springer, Cham.

DOI: [https://doi.org/10.1007/978-3-030-42250-9\\_17](https://doi.org/10.1007/978-3-030-42250-9_17)

[4] **R. Piquié**, P. Véron, F. Segonds, N. Croué. (2018) **A requirement mining framework to support sub-systems suppliers**. 28<sup>th</sup> CIRP Design Conference, Nantes, France, May 23-25, 2018. In *Procedia CIRP*. Vol. 70, pp. 410-415, 2018 (Nominated for the best paper award).

DOI: <https://doi.org/10.1016/j.procir.2018.03.228>



[3] **R. Pinqu  **, P. Micouin, P. V  ron, F. Segonds. (2016) **Property model methodology: a case study with Modelica**. 11<sup>th</sup> International Tools and Methods of Competitive Engineering (TMCE) symposium, Aix-en-Provence, France, May 9-13, 2016.

[2] **R. Pinqu  **, P. V  ron, F. Segonds, N. Crou  . (2016) **Natural Language Processing of Requirements for Model-Based Product Design with ENOVIA/CATIA V6**. In: Bouras, A., Eynard, B., Foufou, S., Thoben, KD. (eds) Product Lifecycle Management in the Era of Internet of Things. PLM 2015. IFIP Advances in Information and Communication Technology, vol 467. Springer, Cham.

DOI: [https://doi.org/10.1007/978-3-319-33111-9\\_19](https://doi.org/10.1007/978-3-319-33111-9_19)

[1] **R. Pinqu  **, P. V  ron, F. Segonds, N. Crou  . (2018) **A collaborative requirement mining framework to support OEMs**. In: Luo, Y. (eds) Cooperative Design, Visualization, and Engineering. CDVE 2015. Lecture Notes in Computer Science(), vol 9320. Springer, Cham.

DOI: [https://doi.org/10.1007/978-3-319-24132-6\\_13](https://doi.org/10.1007/978-3-319-24132-6_13)

## Refereed National Conference Papers (2 publications)

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[2] A. Glotin, **R. Pinqu  **, A. Ouradi, C. Ouazine, F. Segonds. (2022) **Dream: design rules extractor for additive manufacturability, processing of natural language and free-hand sketches**. In CONFERE, B  le, Switzerland, July 7-8, 2022.

[1] S. Debord, F. Segonds, **R. Pinqu  **, P. V  ron, N. Crou  . (2018) **Proposition of design rules framework**. CONFERE, Budapest, Hungary, July 5-7, 2018.

## MEMBERSHIP OF COMMITTEES, COMMISSIONS, BOARDS, OR SIMILAR

- Scientific committee of the International Federation for Information Processing WG 5.1 ([Website](#))

## SCIENTIFIC DUTIES

### Review of papers for journals

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- International Journal of Design Science
- International Journal of Computer-Aided Design and Applications
- International Journal of Computers in Industry
- International Journal of Concurrent Engineering: Research and Applications

### Review of papers for international conferences

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#### 2023:

- 20th Int. Conference on Product Lifecycle Management 2023, July 9-12 2023, Montr  al, Canada.
- 24th Int. Conference on Engineering Design (ICED22), August 2023, Bordeaux, France.

#### 2022:

- 19th Int. Conference on Product Lifecycle Management 2022, July 10-13 2022, Grenoble, France.
- 17th Int. Design Conference 2022, May 23-26 2022, Dubrovnik, Croatia.

#### 2021:

- 23rd Int. Conference on Engineering Design (ICED21), August 2021, Gothenburg, Sweden.
- 18th Int. Conference on Product Lifecycle Management, July 11-14 2021, Parana, Brazil.

#### 2020:

- 17th Int. Conference on Product Lifecycle Management, July 5-8 2020, Rapperswil, Switzerland.



**2019:**

- 22nd Int. Conference on Engineering Design (ICED19), August 5-8 2019, Delft, The Netherlands.
- 16th Int. Conference on Product Lifecycle Management, July 8-12 2019, Moscow, Russia.
- 16th annual Int. CAD Conference, June 24-26 2019, Singapore.

**2018:**

- 87<sup>th</sup> INCOSE Great Lake Regional Conference, October 17-20 2018, Indianapolis, USA.
- 15<sup>th</sup> annual Int. CAD Conference, July 9-11 2018, Paris, France.
- 28<sup>th</sup> annual INCOSE Int. Symposium, July 7-12 2018, Washington, USA.

**Review of submissions to calls of the French National Research Agency (ANR)**

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- Specific call "Recherche-Action SIOMRI" of the French National Research Agency (ANR) 2021.
- Generic call 2022 of the French National Research Agency (ANR) 2021.
- Industrial call "Industrial Chairs" of the French National Research Agency (ANR) 2020.

**Participating in or organising workshops**

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- Workshop speaker, "*Co-design of a community-based ecosystem to improve validation practices in engineering research*", S.mart Special Interest Group in Industry 4.0, Carry le Rouet, France, April 2023.
- Workshop coordinator and speaker, "*Advanced visualisation and interaction for Model-Based Systems Engineering*", INCOSE French Chapter, Grenoble, France, March 2023.
- Workshop speaker, "*Research benchmarks in systems engineering: Application to the activities of early validation and verification*", French-Academia forum of the INCOSE French Chapter, Toulouse, France, December 2022.
- Scientific coordinator, Int. Conference on Product Lifecycle Management, Grenoble, France, July 2022.
- Organiser of the monthly scientific seminars and the annual scientific writing workshop for the integrated design research department (3 research teams) of G-SCOP laboratory since 2018.

**Chair at international conferences**

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- Chair, opening keynote, Int. Conference on Product Lifecycle Management, 2022, Grenoble, France.

**Local or external committee for associate and full professor selection**

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- External committee member, associate professor selection, Arts et Métiers ParisTech, France, 2023.
- External committee member, associate professor selection, Arts et Métiers ParisTech, France, 2019.
- External committee member, associate professor selection, Arts et Métiers ParisTech, France, 2018.

**Special interest groups**

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- Contributor, Design Society, Design Process SIG.
- Contributor, Design Society, Health Systems Design SIG.
- Contributor, INCOSE French Chapter, Model-Based Systems Engineering SIG.
- Founder, Benchmarks for the validation of engineering design research SIG. ([Website](#))

<b>EDUCATION</b>
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## Courses Taught

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### 2022-2023 (232 h)

- **Course director:**
  - Innovation (30,5h, 110 post-graduate students)
  - Text mining (15h, 20 post-graduate students)
  - Systems Engineering (62h, 120 post-graduate students)
- **Course instructor:**
  - CAD and Product Data Management (42h, 60 post-graduate students)
  - Research Design in Industrial Engineering, (15h, 35 post-graduate students)
  - Computer-Aided Design (32h, 120 post-graduate students)
  - Virtual and augmented reality (16,5h, 30 post-graduate students)
  - Model-Based Systems Engineering (16,5h, 20 post-graduate students)
- **Continuing professional development (planned for Spring and Fall 2023 but not considered here) :**
  - Systems Engineering course for Becton Dickinson Medical Pharmaceutical Systems (74,5 h)

### 2021-2022 (419 h)

- **Course director:**
  - Innovation (30,5h, 110 post-graduate students)
  - Text mining (15h, 30 post-graduate students)
  - Systems Engineering (38h, 120 post-graduate students)
- **Course instructor:**
  - CAD and Product Data Management (46h, 60 post-graduate students)
  - Research Design in Industrial Engineering, (15h, 35 post-graduate students)
  - Computer-Aided Design (15h, 30 post-graduate students)
  - Virtual and augmented reality (27h, 30 post-graduate students)
  - Knowledge engineering (7h, 30 post-graduate students)
  - Model-Based Systems Engineering (9h, 35 post-graduate students)
  - Systems Engineering Prototyping (22h, 120 post-graduate students)
- **Continuing professional development :**
  - Systems Engineering course for Becton Dickinson Medical Pharmaceutical Systems (74,5 h)

### 2020-2021 (346 h)

- **Course creator :**
  - Text mining (15h, 30 post-graduate students)
- **Course director:**
  - Innovation (30,5h, 110 post-graduate students)
  - Systems Engineering (29h, 120 post-graduate students)
- **Course instructor:**
  - CAD and Product Data Management (48h, 60 post-graduate students)
  - Industrial engineering (32h, 60 post-graduate students)
  - Virtual and augmented reality (30h, 20 post-graduate students)
  - Systems Engineering Prototyping (30h, 120 post-graduate students)
  - Computer-Aided Design (15h TD, post-graduate students)
  - Model-Based Systems Engineering (10h, 30 post-graduate students)
  - Apprenticeship in the industry (15h, 20 post-graduate students)
- **Continuing professional development:**

- Systems Engineering course for Becton Dickinson Medical Pharmaceutical Systems (50h)

## **2019-2020 (192 h)**

- **Course co-creator :**
  - Virtual and augmented reality (25h, 25 post-graduate students)
- **Course director:**
  - Innovation (30,5h, 110 post-graduate students)
  - Systems Engineering (26h, 120 post-graduate students)
- **Course instructor:**
  - CAD and Product Data Management (50h, 60 post-graduate students)
  - Research Design in Industrial Engineering, (15h, 35 post-graduate students)
  - Computer-Aided Design (12h, 30 post-graduate students)
  - Modelling and Optimization in Product Development (19h, 25 post-graduate students)

## **2018-2019 (220 h)**

- **Course instructor:**
  - Digital chain for industry 4.0 including extended reality, 20h for co-creation of a new course
  - Systems engineering (52h, 35 post-graduate students)
  - CAD and Product Data Management (47h, 60 post-graduate students)
  - Modelling and Optimization in Product Development (21h, 25 post-graduate students)
  - New assistant professor training program (64h)

## **Before 2018**

- **Course instructor:**
  - 2017-2018. Computer-Aided Design and Product Data Management at *Arts & Métiers ParisTech* Engineering School, post-graduate students, 58 hours.
  - 2017-2018. Kinematics and dynamics of multibody systems at *Arts & Métiers ParisTech* Engineering School, post-graduate students, 20 hours.
  - 2015-2016. Computer-Aided Design and Product Data Management at *Arts & Métiers ParisTech* Engineering School, post-graduate students, 35 hours.
  - 2015-2016. Equation-based physical systems modelling and simulation at *Ecole Polytechnique Féminine* Engineering School, post-graduate students, 24 hours.
  - 2014-2015. Equation-based physical systems modelling and simulation at *Ecole Polytechnique Féminine* Engineering School, post-graduate students, 16 hours.