

Curriculum Vitae of Yacine Chitour

1 Personal data

CHITOUR Yacine

Born 30/04/1968 Algiers, Algeria.

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2 Career

23 Senior Member IUF (Renewal)

18 – 23 Senior Member IUF (Institut Universitaire de France) <https://www.iufrance.fr/>

sept. 05-17 Adjunct Professeur at École Polytechnique.

04 PU 2C, 08 PU 1C, 17 PU CE2, Université Paris-Saclay, France (PU= full professor, CE= distinguished).

97-04 MdC, Université Paris-Sud, France (MdC=associate professor).

96-97 Post-doctorate CNES, Université Paris-Sud, France.

90-96 PhD, Rutgers University, NJ-USA, Math. Dept.,

1988-1990 École Polytechnique, Palaiseau, France.

3 Awards

- Prix de Mathématiques Maurice Audin, 2022

- Senior Member IUF (Institut Universitaire de France) 18-23, 23- <https://www.iufrance.fr/>

4 Scientific activity

Research interests

- methodology : geometric, optimal and PDE control; non linear systems, sliding mode and delay systems (controllability, stabilisation); applied differential geometry; signal processing (covariance matrix estimation);
- applications : autonomous vehicules (car and UAV); robotics; dynamical systems for deep learning; insurance contract.

Publications 2 books, +105 articles published or accepted in international journals : 24 in IEEE/Automatica, 20 in SICON (Siam J. Cont. Opt.), 1 in JDG, 1 in JFA, 3 in JDE, 4 in Annales IHP.

(cf. website or <https://arxiv.org/search/?query=chitour>)

5 Supervision

PhD 20 PhD advised and 7 of them have permanent academic positions. Currently 2 PhD students.

Post-doct 6 post-docs and all have permanent academic positions.

6 Responsibilities, organisation and funding

6.1 Administrative duties (last 10 years)

- (16-23) Scientific officer CIMPA (Centre international de mathématiques pures et appliquées), responsible of North Africa and Middle East. <https://www.cimpa.info/en/node/6191>
- Director of Interdisciplinary Institute of Paris Saclay (Lidex from 2014 till 2018, then IRS of l'UPSaclay from 2018 till 2021) H-CODE (research institute in control and decision, 300 researchers, budget : 500 kE/year), <http://www.icode-institute.fr/>
- Member of Commission Nationale des Universités section 61 since 2015 (french national council which provides professor advancements and bonuses).
- Member ANR commission from 2018 till 2021 (french national instance for choosing funded projects in control theory).

6.2 Service for community (last 10 years)

- 40 PhD and HdR committees, 16 hiring committees (12 MdC, 4 PU).
- Associate editor : SICON, IJRNC (Int. J. of Robust and Nonlinear Control), CPAA, ESAIM COCV, Acta Applicandae Mathematicae, MCRF, Series in Mathematics of AIMS, .
- 4 semi-plenary conferences (2 IEEE, 2 math congresses), 12 teaching invitations abroad (2 USA, 2 Italy, 1 Spain, 1 Finland, 2 Lebanon, 4 Algeria).

6.3 Funding (last 10 years)

- ANR SRGI (Sub-Riemannian geometry and interactions 2016-2019) : 70 kE .
- H-CODE : 20 kE per year since 2014.
- Digiteo : 2 projects of 200kE each, 2010-2014.
- ANR GMC (geometric methods in control 2010-2014) : 50kE.

6.4 Organisation of scientific events (last 10 years)

CIMPA School April 12-24 2014, Tlemcen, Algeria, 100 participants.

<http://www.cimpa-icpam.org/?lang=fr>

IHP Trimester (Institut Henri Poincaré) Fall 2014, Paris, 280 participants.

<http://www.cmap.polytechnique.fr/subriemannian/>