LAMSADE: the last 5 years

Alexis Tsoukiàs

HCERES, 23/10/2017
Decision Sciences and Technologies

We do research for:

Improving how people and devices “decide” as well as improving how to help people and devices to “decide”.

- Data, Information and Knowledge
- Algorithms and Agents
- Models, Languages, Theories
- Practices
Who are we?

2011: 43 researchers, 30 PhD, 5 staff
2016: 56 researchers, 40 PhD, 5 staff
13 nationalities, 18 considering the PhDs
40% women, 40% international

Research Staff over time

MdC, PU, Emer., CR, DR, Autre
Who are we?

- 2011: 43 researchers, 30 PhD, 5 staff
- 2016: 56 researchers, 40 PhD, 5 staff
- 13 nationalities, 18 considering the PhDs
- 40% women, 40% international

Research Staff over time

- MdC
- PU
- Emer.
- CR
- DR
- Autre
Organisation

TEAM 1
- Intelligent Agents for Decision and Reasoning
- Preference Modelling and MCDA
- Machine Learning

TEAM 2
- Social Choice and Game Theory
- Multiple Criteria Combinatorial Optimisation
- Guaranteed performance algorithms
- Mathematical Programming and Discrete Structures

TEAM 3
- Policy Analytics
- Web Services
- Massive Data Management, Analysis and Exploration

LAMSADEN: the last 5 years
LAMSADE in Dauphine

Management Science
Policy Analytics
LAMSADE
Peace Studies
Economics and Decision
Game Theory
Data Sciences
LAMSADE in Dauphine

DRM

Management Science
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LAMSADE in Dauphine

- DRM
  - Management Science
  - Policy Analytics
- IRISSO
  - Peace Studies
  - Economics and Decision
  - Game Theory
  - Data Sciences
- LEDA
- CEREMADE

LAMSADE: the last 5 years
Science

Scientific production

- books
- edited books
- articles
- proceedings
- total

Improved Quality

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LAMSADE: the last 5 years
Science

- 3 papers/person/year
- Improved Quality
- Nice results
- Community leaders
- Attractiveness
Examples of science

- Axiomatisation of bibliometric indices
- Handbook of Computational Social Choice
- Formal framework for super-polynomial approximation
- Improving the quality of Lovász theta functions
- New methods for “preferred solutions” in multi-objective optimisation
- Reducing costs of data integration
- Improved machine learning algorithms
- Monograph/book on process analytics, new models and complexity analysis for service selection and composition problem
PhDs

PhD enrollement

- 2011: 3
- 2012: 2
- 2013: 8
- 2014: 6
- 2015: 8
- 2016: 4
established rules for allocations
international recruitment
returned to an average 10 per year
3.9 years average duration
PhD funding and jobs

Phd Funding

- ANR: 42%
- CIFRE: 13%
- MESR: 7%
- PSL: 5%
- LAMSADE: 29%
- ETRANGER: 2%
- AUTRE: 2%

Job destination

- MdC: 14%
- MdC-E: 8%
- Post-doc: 14%
- IR: 6%
- Ens.: 5%
- Ent.: 22%
- Autre: 42%
Facts and Thoughts
SWOT
Conclusions

Funding

Good financial results

Autonomous creative management

Worrying trend

Good science is not awarding

Good selling and lobbying is awarding

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LAMSADE: the last 5 years
- Good financial results
- Autonomous creative management
- Worrying trend
- Good science is not awarding
- Good selling and lobbying is awarding
Fund raising

Funding Sources

- Dauphine: 26%
- ANR: 23%
- PSL: 11%
- Contracts: 6%
- CNRS: 5%
- Projets CNRS: 6%

Our Partners
- RENAULT, Orange, SNCF, DCNS, Sagem...
- Decision Brain, Coheris, Meta-Conseil, Agilab, Treize 37...
- Lyon Hospitals, Cour des Comptes, Conseil d'État, CGEDD, IHEDN, HAS, INERIS, IRSN, IRSTE A...
Fund raising

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Training

- Doctoral School
- MIDO: 2 research programs in Decision Sciences and Intelligent Systems and 3 Professional programs in Computer Science/Analytics/Business
- MSO: 2 Professional programs in Management of Information Systems and Peace Studies
- LSO: Computer Science for all ...
So what?

 Strengths
 Attractiveness
 Clear Identity
 Clear Rules
 Community Leadership
 Good Science
 Interdisciplinarity
 Internationalisation
 Reputation

 Weaknesses

 Attractiveness
 Clear Identity
 Clear Rules
 Community Leadership
 Good Science
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 Internal Differences

 Clear Identity
 Low risk taking
 Visibility and autonomy
 Community Leadership of projects

 Attractiveness
 Good Science
 Interdisciplinarity
 Internationalisation
 Reputation

 Opportunities

 Job careers
 European Training
 Research Funding

 Threats

 Decision/Data/A.I.
 Private Research Competitors
 Interdisciplinary challenges
 PSL and Computer Science
 PSL PIA2/PIA3

 Conclusions

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**Facts and Thoughts**

**SWOT**

**Conclusions**

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LAMSADE: the last 5 years
Remarquable Facts

- 2014: 40 years of LAMSADE
- 2015: 3rd area of LAMSADE; Data Sciences
- 2016: EURO awards and AAMAS Best paper award
- 2017: Bronze and Silver CNRS Medals
- Interdisciplinarity
- Increased visibility
Conclusions

- We are doing fair ...
- We can do much better ...
- But the system is not sustainable ...
Thanks
Thanks

to Eric Jaquet-Lagrèze
Founding member, pioneer and friend (1947 - 2017)