

Meeting of the Council of the Institute of Informatics

9th September 2021



Agenda

1. Appointment of a new vice director of research affairs, proposal and voting (ŁK)
2. New faculty members (ŁK)
3. Scientific activity of the Institute (BK)
 - 3.1. Publications, grants, awards in 2020
 - 3.2. Evaluation of Computer Science at UW (2017-2021)
 - 3.3. Results of the admission to the Doctoral School
4. Teaching in the Institute (AJ)
 - 4.1. Online teaching
 - 4.2. Evaluation of CS studies by Polish Accreditation Committee
 - 4.3. New master programme: Machine Learning
 - 4.4. Challenges and tasks
5. Other business: discussion

New faculty members

- 1 associate professor
 - Magdalena Stobińska (quantum information)
- 6 assistant professors
 - Krzysztof Fleszar (algorithms, computational geometry)
 - Jakub Gajarsky (logic, graph algorithms)
 - Tomáš Masařík (algorithms, graph theory)
 - Filip Mazowiecki (automata and logic)
 - Jarosław Paszek (computational biology)
 - Marcin Wrochna (algorithms, graph theory)
- 1 assistant (specialization: information technologies)
 - Sebastian Gęgotek

Structure of the Institute

	2019/20			2020/21			new faculty members		
	R	R&T	T	R	R&T	T	R	R&T	T
Professor	2	14			18			-1	
Associate Prof.	4	8		2	11			+1	
Docent			4			4			
Assistant Prof.	6	30	10		33	10	+1	+5	
Postdocs	17			19					
Senior Assistant	3	1			2				
Assistant	19		3	20		2			+1
Σ	82 + 39			82 + 39			89 + ...		

*R = Research, R&T = Research&Teaching; T = Teaching (groups of positions)

Institutes in MIMUW

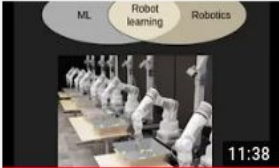
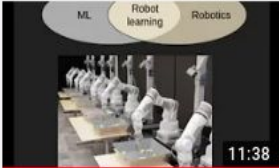
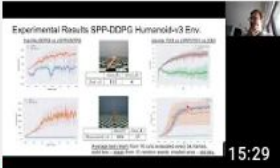



	permanent positions	short-term positions	total
Inst. Mathematics	78	3	81
Inst. Informatics	82	39	121
Inst. Applied Math.	39	-	39

Open Day of Doctoral Studies

- Organized by Stefan Dziembowski and Ł.K. in May 2021
- with help from Basia Poszewiecka, Paulina Szymańska-Rożek, Kamila Łyczek
- ~30 students
- recordings published (see openday.mimuw.edu.pl)
- it was nice to learn what others actually do :)

Agenda

1. Institute of Informatics
2. Doctoral School
3. Open Day
4. Questions

 <p>23:43</p>	 <p>11:38</p>	 <p>15:29</p>	 <p>15:54</p>	 <p>14:34</p>	 <p>16:12</p>
Łukasz Kowalik: Welcome Address 66 wyświetleń • 3 miesiące temu	Marek Cygan: Robot learning 53 wyświetlenia • 3 miesiące temu	Jacek Cyranka: Foundations of Interpretable and Reliab... 29 wyświetleń • 3 miesiące temu	Marcin Dziubiński: Games, mechanisms and social... 34 wyświetlenia • 3 miesiące temu	Krzysztof Rządca: Optimization in Scheduling... 15 wyświetleń • 3 miesiące temu	Konrad Iwanicki: Dependable distributed... 17 wyświetleń • 3 miesiące temu



Institute of Informatics
Summary of Scientific Activities
2020-21

Where we publish: top level

Our top* **journal** venues in 2020**:

- *Applied Soft Computing*
- *Artificial Intelligence*
- *Bioinformatics*
- *Chem*
- *Genome Biology*
- *IEEE Trans. on Cybernetics*
- *Journal of Economic Theory*
- *Molecular Cell*
- *SIAM J. on Computing*

* worth 200pts according to MEiN

** data taken from EVA reports

Where we publish: top level

Our top* **conference** venues in 2020**:

- *EC: ACM C. on Economics and Computation*
- *PODS: ACM C. on Principles of Database Systems*
- *STOC: ACM S. on Theory of Computing*
- *SODA: S. on Discrete Algorithms*
- *LICS: IEEE S. on Logic in Computer Science*
- *CVPR: IEEE C. on Computer Vision and Pattern Recognition*
- *AAMAS: Int. C. on Autonomous Agents & Multiagent Sys.*
- *KR: Int. C. on Princ. of Knowledge Representation and Reasoning*
- *AAAI: Nat. C.. of the Amer. Assoc. for Artificial Intelligence*
- *IJCAI: Int. Joint C. on Artificial Intelligence*

* worth 200pts according to MEiN

** data taken from EVA reports

Where we publish regularly

Our most popular good* venues in 2020**:

Venue	No. of papers
- <i>LICS: IEEE S. on Logic in Computer Science</i>	6
- <i>ACM Transactions on Algorithms</i>	5
- <i>ESA: European Symposium on Algorithms</i>	5
- <i>AAAI: Nat. C. of the Amer. Assoc. for Artificial Intelligence</i>	4
- <i>ICALP: Int. Colloq. on Automata, Languages and Programming</i>	4
- <i>AAMAS: Int. C. on Autonomous Agents & Multiagent Sys.</i>	3
- <i>CONCUR: Int. C. on Concurrency Theory</i>	3
- <i>MFCS: Int. Symp. on Math. Foundations of Computer Science</i>	3

* worth 140pts according to MEiN

** data taken from EVA reports

Publication volume

Publication numbers in 2019 and 2020:

	2019	2020
200pts	34	31
140pts	43	40
100pts	13	14
70pts	32	34
Total	122	119

(earlier data difficult to compare)

Grants

Major grants running in 2020:

- 5 ERC grants (M. Bojańczyk, M. Cygan, S. Dziembowski, Ma. Pilipczuk, P. Sankowski)

- NCN grants:

Opus	17
Sonata Bis	2
Sonata	5
Sonatina	1
Preludium	6
Harmonia	1
Symfonia	2

- FNP grants:

Homing	1
Team	1
Copernicus	1
Start	3

- 2 NAWA grants

- 1 EU ITN

- ...

Biggest news in 2021:

- 2 ERC grants (W. Czerwiński, Mi. Pilipczuk)

Numbers stay strong, but many grants end in 2021...

Awards in 2020

- *IJCAI Computer and Thought Award: Piotr Skowron*

... for his contributions to computational social choice, and to the theory of committee elections.

- *MNiSW Scholarship for Young Scientists: Piotr Biliński*

- Best paper awards:

ICALP (track B): D. Barozzini, L. Clemente, P. Parys

WG: Mi. Pilipczuk, K. Węgrzycki

MFCS: M. Bojańczyk, J. Schmude

WALCOM: J. Radoszewski, W. Rytter, T. Waleń, W. Zuba

Degrees

2020:

- 3 professorships:
 - S. Dziembowski
 - Ł. Kowalik
 - D. Ślęzak
- 9 habilitations:
 - L. Clemente
 - W. Czerwiński
 - E. Kopczyński
 - P. Parys
 - J. Radoszewski
 - M. Skrzypczak
 - E. Szczurek
 - S. Toruńczyk
 - T. Wałeń
- 0 PhD degrees (!!)

2021: (so far)

- 1 professorship:
 - B. Klin
- 1 habilitation:
 - J. Pawlewicz
- 3 PhD degrees

Internal funding (2021)

1. Subwencja

- only 30 kPLN for 2021, as no more was required
- travel expenses severely limited by the pandemic
- expense claims for outdated equipment **welcome**

2. (Institute) Quants

- approx. 58 kPLN / month, divided among research staff based on recent publication record and other achievements

3. IDUB New Ideas

- a new programme of internal grants (up to 150 kPLN)
- in 2021, two grants awarded to Inf

PhD School admissions

Admission numbers:

		2020	2021
	Places available	22	22
	Candidates	29	40
Offers made	Mathematics	16	9
	Informatics	6	13
	Foreign candidates	8	12
	Foreign offers	4	4

The candidate numbers are likely to grow.

The number of **good** candidates - this is less clear.

Evaluation of Research

In January 2022, our publication output in the years 2017-21 will be evaluated.

This is important.

In the Institute, 130 people did research in 2017-21. *
On average, this makes approx. 86 people (*average N*).

The Institute should exhibit approx. 260 publications,
but each person can only put 4 publication *slots*.

* All numbers are approximate: data for 2021 are missing.

Publication volume, again

Recall publication numbers in 2019 and 2020:

	2019	2020
200pts	34	31
140pts	43	40
100pts	13	14
70pts	32	34
Total	122	119

This looks good, **but it is an illusion** because of the 4 slot limit.

Contributors to top venues

Number of people contributing to publications in top venues:

meaning “this but not higher”

	2019	2020
200pts	31	22
140pts	23	30
100pts	6	4
Total	60	56

Not everybody publishes in top venues...

Contributors to top venues “max out” quickly

Until 2020, the following numbers of people published their maximum allowed number of slots for at least N pts. each:

- 10 people for N=200,
- 26 people for N=140,
- 4 people for N=100.

Until 2020, top-venue publications have filled:

- 82 slots for 200pts each,
- 91 slots for 140pts each,
- 14 slots for 100pts each.

Approx. 75 slots still to be filled in 2021 and/or with lower-scoring publications.

Important

In the following months, you may be asked:

- to check your EVA reports from 2017-20 for missing publications
- to provide a list of omissions, and of all your papers published in 2021
- to sign a formal document, allowing UW to include some (**perhaps not all!**) of your papers in the evaluation

Please do not ignore this!

Teaching in Institute of Informatics

Agata Janowska

September 9, 2021

Online teaching

- Online teaching
 - quite a challenge
 - new teaching materials for students
 - recordings of lectures
 - alternative method of methods of organizing teaching
 - good grades in surveys
- Change of class evaluation survey system
 - emphasis on the attitude towards students
 - more extensive questionnaire
 - fewer student responses

Visit of Polish Accreditation Committee, March 23-24, 2021

Evaluation criteria:

- 1 Concept of Computer Science studies program
- 2 Implementation of the study program
- 3 Admission to studies, verification learning outcomes
- 4 Competences, experience, qualifications of staff
- 5 Infrastructure and resources
- 6 Cooperation with the socio-economic environment
- 7 Internationalization of the education process
- 8 Support for students
- 9 Public access to information about studies
- 10 Quality policy

All passed!

New program: Machine Learning

- Master degree program (in English)
- Created as a response to the rapidly growing interest in this area
- Part of AI-Tech project (Akademia Innowacyjnych Zastosowań Technologii Cyfrowych)
- www.mimuw.edu.pl/machine-learning-nowy-kierunek-na-studiach-ii-stopnia
- Coordinators: Marek Cygan and Aleksy Schubert

Admission

- ML admission limit: 40
- INF2 admission limit - before: 100, now: 70

		2017	2018	2019	2020	2021
INF1	candidates	1067	1140	1097	1247	1172
	admitted	177	178	192	181	179
INF2	candidates	153	194	167	149	107+20
	admitted	77	92	105	94	62+...
ML	candidates					102+41
	admitted					16+...

Challenges

Difficulties in finding teachers

- insufficient number of teaching staff in the institute
- few PhD students
- ca. 4.000h from ca. 20.000h is handled by people from outside faculty, students, PhD students in their overtime

Challenges cont.

Students complaining of work overload

- mostly second and third year of BA studies
- growing number of students with mental health problems

„Generalnie nie podoba mi się opinia panująca wśród studentów a także osób z zewnątrz, że nasze studia są wykańczające psychicznie. Parę znajomych osób z liceum pytało się mnie, czy studia na MIM-ie są znośne, bo się zastanawiają, ale słyszeli tyle negatywnych opinii na ten temat”

„Dla bardzo wiele osób te studia to walka o przeżycie, a nie nauka”

„Nagromadzenie tylu projektów często powoduje, że przez 2-3 miesiące nie można znaleźć ani jednego wolnego weekendu”

Tasks

- Undergraduate program reform to be introduced in 2022/23
- A kind request to the coordinators to consider reducing the number or size of projects
- Reform of elective courses
 - avoiding incomplete groups
 - ensuring critical fields are covered