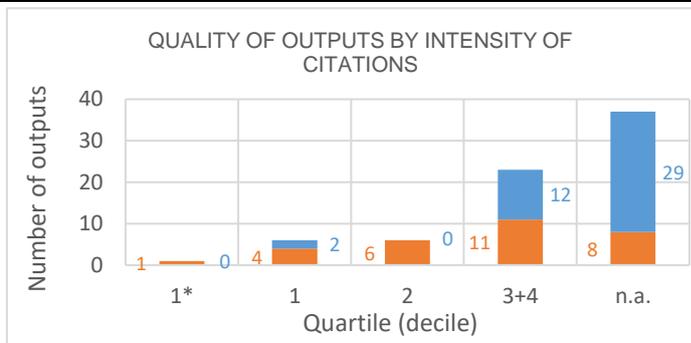
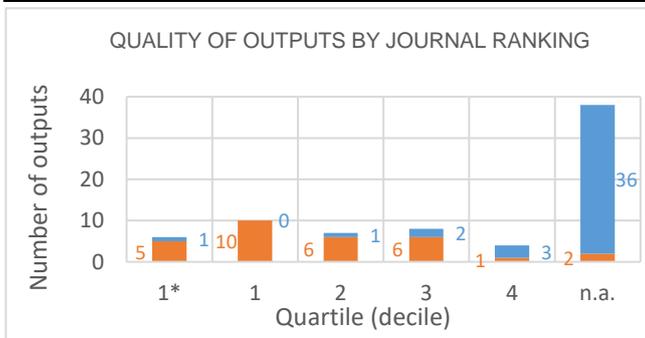


# Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

## BIBLIOMETRIC PARAMETERS OF ALL OUTPUTS INCLUDING THOSE EVALUATED IN THE PHASE I.

**Institute:** Institute of Information Theory and Automation of the CAS, v. v. i.  
**Team:** Department of Adaptive Systems  
**Head:** Ing. Tatiana Valentine Guy, Ph.D.  
**Field:** Computer and information sciences  
**Total number of outputs:** 73      **Evaluated outputs:** 30



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	11	18
B	1	7
B1	1	7
C	7	2
C1	7	8
D	1	
D1		
E		
n.a.	2	
Without affiliation		1
A1+B1+C1+D1	19	33
B+C+D+E	9	9

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Engineering Electrical Electronic	12	11
Automation Control Systems	9	12
Computer Science Artificial Intelligence	4	7
Computer Science Theory Methods	1	10
Computer Science Information Systems	2	5
Robotics		7
Mathematics	4	2
Mathematics Applied	4	2
Statistics Probability	1	5
n.a.	2	2
Computer Science Interdisciplinary Applications	1	2
Engineering Biomedical		2
Engineering Civil	1	1
Environmental Sciences	2	
Imaging Science Photographic Techn		2
Instruments Instrumentation	2	
Mathematics Interdisciplinary Applications	1	1
Meteorology Atmospheric Sciences	2	
Operations Research Management S	1	1
Radiology Nuclear Medicine Medical I		2

**Total number of outputs:** outputs of the team published during the evaluated period 2015-2019.

**Evaluated outputs:** selected outputs submitted by the team to the Phase I of evaluation.

**Outputs used for bibliometry:** subset of all outputs registered in the Web of Science; document type: article, review or proceedings paper.

**Quality of outputs by journal ranking:** number of outputs in top decile (1\*) and quartiles (1-4) by AIS of journals; n. a. - outputs in journals without AIS; orange: outputs from the Phase I, blue: the other outputs of the team.

**Quality of outputs by intensity of citations:** number of outputs in the top decile (1\*) and in quartiles (1, 2, 3+4) determined from the list of outputs ordered by the number of citations (downloaded from the Web of Science at the beginning of evaluation) for each subject category, year, and type of output; n. a. – the data are not robust enough for relevant judgement; orange: outputs from the Phase I, blue: the other outputs of the team.

**Types of collaboration:** outputs created exclusively in a particular institute are marked by A1, outputs created within national cooperation by max. 5 organizations are marked by B, outputs created within international cooperation by max. 5 organizations are marked C, outputs created within large collaboration exceeding 5 organizations are marked D, outputs created within large international collaboration are marked E. It is distinguished by marking B1/B, C1/C and D1/D whether the output has/does not have a corresponding author from a particular team.

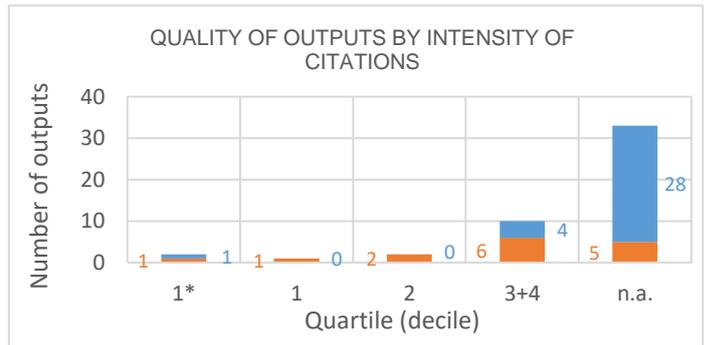
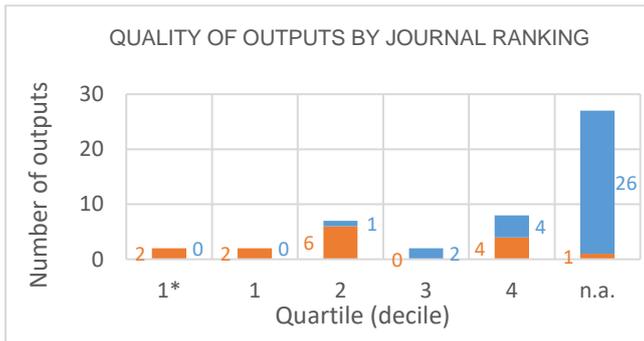
**Field structure of outputs:** number of outputs of the team in different subject categories (subfields); if the output is assigned to more than one field, the field where the publication performs best (assessed by Quality of outputs by journals ranking) is taken; the table shows up to 20 fields.

**Detailed explanation of the indicators is provided in the Methodology of evaluation, Annex 2 – Bibliometrics.**

# Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

## BIBLIOMETRIC PARAMETERS OF ALL OUTPUTS INCLUDING THOSE EVALUATED IN THE PHASE I.

**Institute:** Institute of Information Theory and Automation of the CAS, v. v. i.  
**Team:** Department of Control Theory  
**Head:** Prof. RNDr. Sergej Čelikovský, CSc.  
**Field:** Electrical engineering, Electronic engineering, Information engineering  
**Total number of outputs:** 48      **Evaluated outputs:** 15



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	7	17
B	4	3
B1	1	
C	2	9
C1		4
D		
D1		
E		
n.a.	1	
Without affiliation		
A1+B1+C1+D1	8	21
B+C+D+E	6	12

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Automation Control Systems	10	16
Engineering Electrical Electronic	9	10
n.a.	1	9
Mathematics Interdisciplinary Applied	7	
Engineering Multidisciplinary	4	
Computer Science Artificial Intelligence		3
Computer Science Cybernetics		3
Multidisciplinary Sciences	3	
Computer Science Information Systems		2
Engineering Civil	1	1
Mathematics Applied		2
Computer Science Interdisciplinary Applied	1	
Computer Science Theory Methods		1
Construction Building Technology	1	
Engineering Mechanical		1
Instruments Instrumentation	1	
Robotics		1
Transportation Science Technology	1	

**Total number of outputs:** outputs of the team published during the evaluated period 2015-2019.

**Evaluated outputs:** selected outputs submitted by the team to the Phase I of evaluation.

**Outputs used for bibliometry:** subset of all outputs registered in the Web of Science; document type: article, review or proceedings paper.

**Quality of outputs by journal ranking:** number of outputs in top decile (1\*) and quartiles (1-4) by AIS of journals; n. a. - outputs in journals without AIS; orange: outputs from the Phase I, blue: the other outputs of the team.

**Quality of outputs by intensity of citations:** number of outputs in the top decile (1\*) and in quartiles (1, 2, 3+4) determined from the list of outputs ordered by the number of citations (downloaded from the Web of Science at the beginning of evaluation) for each subject category, year, and type of output; n. a. – the data are not robust enough for relevant judgement; orange: outputs from the Phase I, blue: the other outputs of the team.

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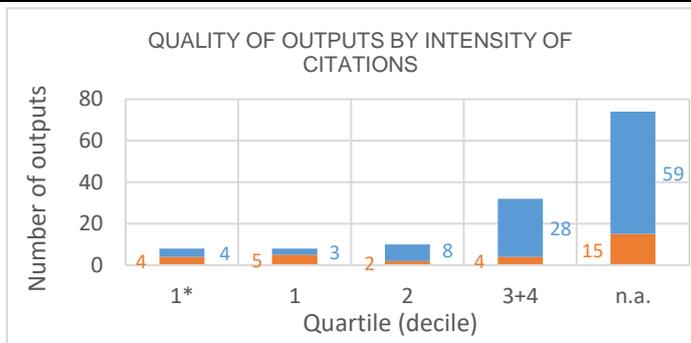
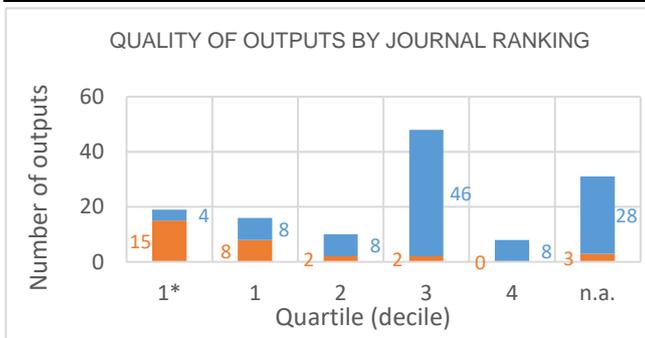
**Detailed explanation of the indicators is provided in the Methodology of evaluation, Annex 2 – Bibliometrics.**

**NOTE:** The significance of bibliometrics in technical sciences is very limited.

# Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

## BIBLIOMETRIC PARAMETERS OF ALL OUTPUTS INCLUDING THOSE EVALUATED IN THE PHASE I.

**Institute:** Institute of Information Theory and Automation of the CAS, v. v. i.  
**Team:** Department of Decision Making Theory  
**Head:** Doc. RNDr. Martin Kružík, Ph.D. DSc.  
**Field:** Mathematics  
**Total number of outputs:** 132      **Evaluated outputs:** 30



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	2	17
B	2	17
B1	1	21
C	10	25
C1	11	17
D	1	2
D1		
E		
n.a.	3	3
Without affiliation		
A1+B1+C1+D1	14	55
B+C+D+E	13	44

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Mathematics Applied	21	37
Computer Science Artificial Intelligence	1	26
Operations Research Management Science	5	13
Mathematics	5	12
Computer Science Theory Methods		12
Logic	1	11
Mechanics	1	10
Mathematics Interdisciplinary Applied		9
Materials Science Multidisciplinary	1	6
Computer Science Software Engineering	3	3
n.a.	3	3
Statistics Probability		6
Computer Science Cybernetics		5
Computer Science Interdisciplinary Applied		5
Automation Control Systems	3	1
Engineering Electrical Electronic	1	3
Economics		3
Philosophy		3
Robotics		3
Social Sciences Mathematical Methods		3

**Total number of outputs:** outputs of the team published during the evaluated period 2015-2019.

**Evaluated outputs:** selected outputs submitted by the team to the Phase I of evaluation.

**Outputs used for bibliometry:** subset of all outputs registered in the Web of Science; document type: article, review or proceedings paper.

**Quality of outputs by journal ranking:** number of outputs in top decile (1\*) and quartiles (1-4) by AIS of journals; n. a. - outputs in journals without AIS; orange: outputs from the Phase I, blue: the other outputs of the team.

**Quality of outputs by intensity of citations:** number of outputs in the top decile (1\*) and in quartiles (1, 2, 3+4) determined from the list of outputs ordered by the number of citations (downloaded from the Web of Science at the beginning of evaluation) for each subject category, year, and type of output; n. a. – the data are not robust enough for relevant judgement; orange: outputs from the Phase I, blue: the other outputs of the team.

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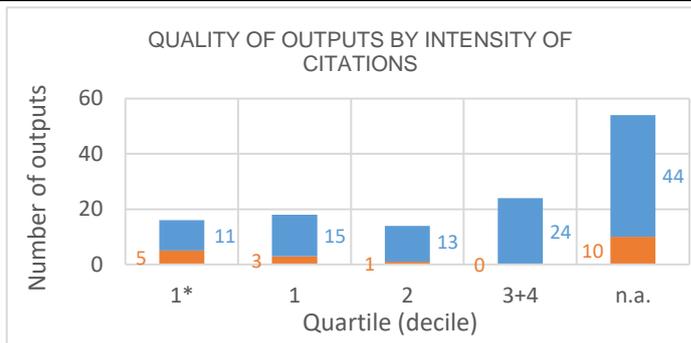
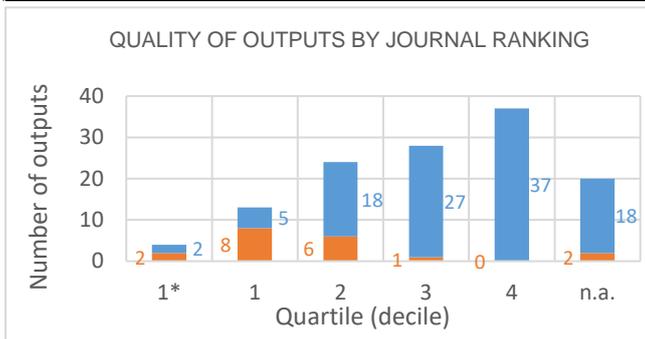
**Field structure of outputs:** number of outputs of the team in different subject categories (subfields); if the output is assigned to more than one field, the field where the publication performs best (assessed by Quality of outputs by journals ranking) is taken; the table shows up to 20 fields.

**Detailed explanation of the indicators is provided in the Methodology of evaluation, Annex 2 – Bibliometrics.**

# Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

## BIBLIOMETRIC PARAMETERS OF ALL OUTPUTS INCLUDING THOSE EVALUATED IN THE PHASE I.

**Institute:** Institute of Information Theory and Automation of the CAS, v. v. i.  
**Team:** Department of Econometrics  
**Head:** Doc. PhDr. Jozef Baruník, Ph.D.  
**Field:** Economics and Business  
**Total number of outputs:** 126      **Evaluated outputs:** 19



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	1	19
B	6	12
B1	4	19
C	5	37
C1	1	8
D		10
D1		2
E		
n.a.	2	
Without affiliation		
A1+B1+C1+D1	6	48
B+C+D+E	11	59

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Economics	10	38
Mathematics Applied		16
Mathematics Interdisciplinary Applica	1	15
Business Finance	5	9
Social Sciences Mathematical Method	1	13
Computer Science Artificial Intelligen	2	11
Statistics Probability	1	11
Computer Science Theory Methods		11
Physics Multidisciplinary		10
Computer Science Cybernetics		8
Operations Research Management S	2	5
Physics Mathematical		6
Management	2	3
Mathematics		5
Multidisciplinary Sciences	1	4
Physics Fluids Plasmas		5
Political Science		5
Mechanics		4
Computer Science Information System		3
Engineering Electrical Electronic	2	1

**Total number of outputs:** outputs of the team published during the evaluated period 2015-2019.

**Evaluated outputs:** selected outputs submitted by the team to the Phase I of evaluation.

**Outputs used for bibliometry:** subset of all outputs registered in the Web of Science; document type: article, review or proceedings paper.

**Quality of outputs by journal ranking:** number of outputs in top decile (1\*) and quartiles (1-4) by AIS of journals; n. a. - outputs in journals without AIS; orange: outputs from the Phase I, blue: the other outputs of the team.

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**Field structure of outputs:** number of outputs of the team in different subject categories (subfields); if the output is assigned to more than one field, the field where the publication performs best (assessed by Quality of outputs by journals ranking) is taken; the table shows up to 20 fields.

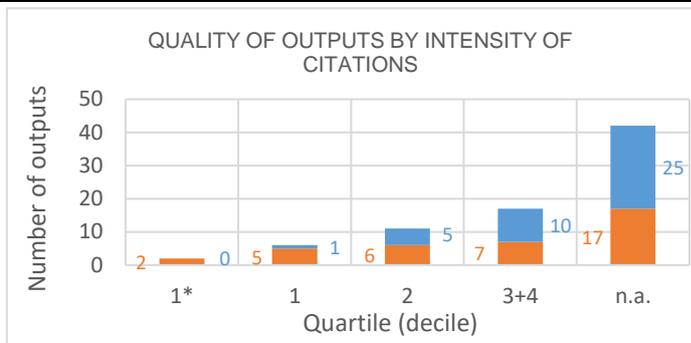
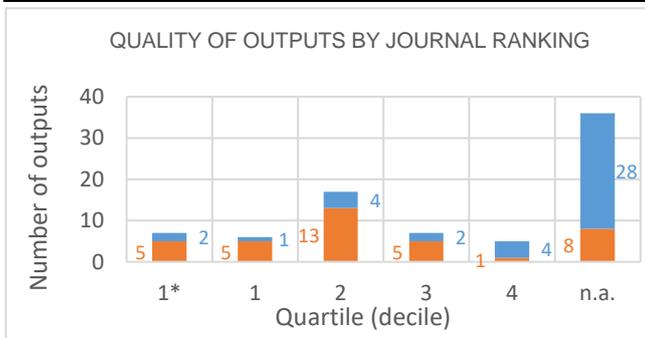
**Detailed explanation of the indicators is provided in the Methodology of evaluation, Annex 2 – Bibliometrics.**

**NOTE:** The significance of bibliometrics in social sciences is very limited.

# Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

## BIBLIOMETRIC PARAMETERS OF ALL OUTPUTS INCLUDING THOSE EVALUATED IN THE PHASE I.

**Institute:** Institute of Information Theory and Automation of the CAS, v. v. i.  
**Team:** Department of Image Processing  
**Head:** Doc. RNDr. Barbara Zitová, Ph.D.  
**Field:** Computer and information sciences  
**Total number of outputs:** 78      **Evaluated outputs:** 37



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	7	14
B	3	5
B1	6	10
C	4	6
C1	9	3
D	2	1
D1		
E		
n.a.	6	1
Without affiliation		1
A1+B1+C1+D1	22	27
B+C+D+E	9	12

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Engineering Electrical Electronic	16	11
Computer Science Artificial Intelligence	12	6
Imaging Science Photographic Techn	1	12
Computer Science Theory Methods	1	6
n.a.	6	1
Radiology Nuclear Medicine Medical	3	2
Computer Science Information System	1	3
Computer Science Software Engineer		4
Automation Control Systems	1	2
Geosciences Multidisciplinary		3
Optics	1	2
Astronomy Astrophysics	1	1
Computer Science Interdisciplinary A	1	1
Engineering Biomedical		2
Engineering Civil		2
Chemistry Multidisciplinary	1	1
Instruments Instrumentation	2	
Materials Science Multidisciplinary		2
Mathematics Interdisciplinary Applica	1	1
Medicine Legal	2	

**Total number of outputs:** outputs of the team published during the evaluated period 2015-2019.

**Evaluated outputs:** selected outputs submitted by the team to the Phase I of evaluation.

**Outputs used for bibliometry:** subset of all outputs registered in the Web of Science; document type: article, review or proceedings paper.

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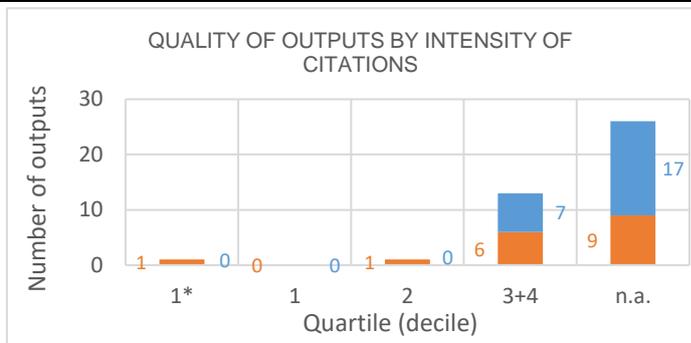
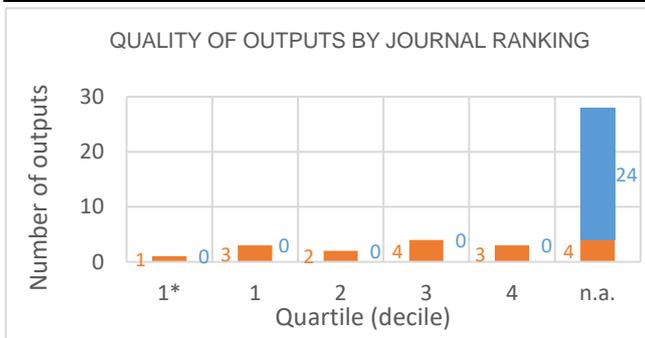
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# Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

## BIBLIOMETRIC PARAMETERS OF ALL OUTPUTS INCLUDING THOSE EVALUATED IN THE PHASE I.

**Institute:** Institute of Information Theory and Automation of the CAS, v. v. i.  
**Team:** Department of Pattern Recognition  
**Head:** Prof. Ing. Michal Haindl, DrSc.  
**Field:** Computer and information sciences  
**Total number of outputs:** 41      **Evaluated outputs:** 17



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	9	12
B		3
B1	2	5
C	1	1
C1	3	1
D		
D1		
E		
n.a.	2	2
Without affiliation		
A1+B1+C1+D1	14	18
B+C+D+E	1	4

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Computer Science Artificial Intelligence	6	13
Computer Science Theory Methods		12
Engineering Electrical Electronic	5	3
Imaging Science Photographic Techn	3	5
Computer Science Software Engineer	5	2
Computer Science Information System		6
Robotics		5
Computer Science Interdisciplinary A		4
n.a.	2	2
Computer Science Cybernetics	2	1
Automation Control Systems		2
Optics		2
Engineering Biomedical		1
Geography Physical	1	
Chemistry Applied	1	
Instruments Instrumentation		1
Materials Science Coatings Films	1	
Remote Sensing	1	

**Total number of outputs:** outputs of the team published during the evaluated period 2015-2019.

**Evaluated outputs:** selected outputs submitted by the team to the Phase I of evaluation.

**Outputs used for bibliometry:** subset of all outputs registered in the Web of Science; document type: article, review or proceedings paper.

**Quality of outputs by journal ranking:** number of outputs in top decile (1\*) and quartiles (1-4) by AIS of journals; n. a. - outputs in journals without AIS; orange: outputs from the Phase I, blue: the other outputs of the team.

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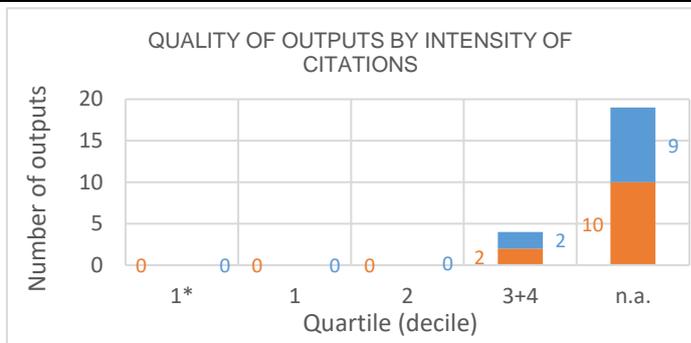
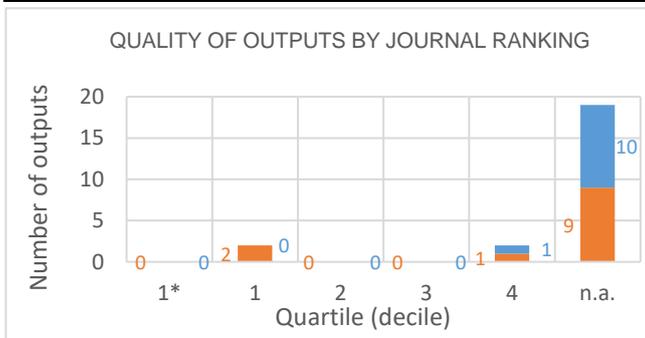
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# Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

## BIBLIOMETRIC PARAMETERS OF ALL OUTPUTS INCLUDING THOSE EVALUATED IN THE PHASE I.

**Institute:** Institute of Information Theory and Automation of the CAS, v. v. i.  
**Team:** Department of Signal Processing  
**Head:** Ing. Jiří Kadlec, CSc.  
**Field:** Computer and information sciences  
**Total number of outputs:** 23      **Evaluated outputs:** 12



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1		1
B	1	
B1	3	9
C		1
C1		
D		
D1		
E		
n.a.	6	
Without affiliation	2	
A1+B1+C1+D1	3	10
B+C+D+E	1	1

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Computer Science Artificial Intelligence		8
Engineering Electrical Electronic	2	4
n.a.	6	
Automation Control Systems	2	3
Computer Science Hardware Architect		3
Computer Science Information System	1	2
Transportation Science Technology	2	1
Engineering Industrial	1	1
Robotics	2	
Computer Science Interdisciplinary A		1
Computer Science Theory Methods		1
Economics	1	
Engineering Civil	1	
Engineering Manufacturing		1
Engineering Multidisciplinary		1
Medical Informatics		1
Operations Research Management S	1	
Statistics Probability	1	
Transportation	1	
Urban Studies		1

**Total number of outputs:** outputs of the team published during the evaluated period 2015-2019.

**Evaluated outputs:** selected outputs submitted by the team to the Phase I of evaluation.

**Outputs used for bibliometry:** subset of all outputs registered in the Web of Science; document type: article, review or proceedings paper.

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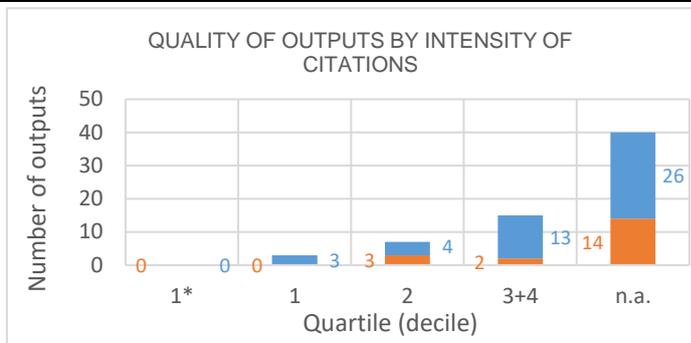
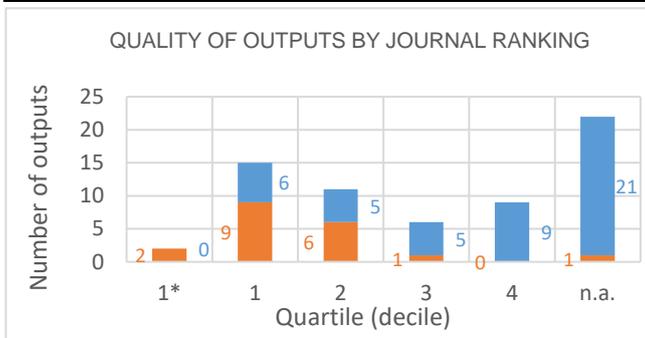
**Field structure of outputs:** number of outputs of the team in different subject categories (subfields); if the output is assigned to more than one field, the field where the publication performs best (assessed by Quality of outputs by journals ranking) is taken; the table shows up to 20 fields.

**Detailed explanation of the indicators is provided in the Methodology of evaluation, Annex 2 – Bibliometrics.**

# Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

## BIBLIOMETRIC PARAMETERS OF ALL OUTPUTS INCLUDING THOSE EVALUATED IN THE PHASE I.

**Institute:** Institute of Information Theory and Automation of the CAS, v. v. i.  
**Team:** Department of Stochastic Informatics  
**Head:** RNDr. Jan Seidler, CSc.  
**Field:** Mathematics  
**Total number of outputs:** 65      **Evaluated outputs:** 19



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	3	9
B	1	7
B1	1	7
C	7	13
C1	6	6
D		1
D1		
E		
n.a.	1	
Without affiliation		3
A1+B1+C1+D1	10	22
B+C+D+E	8	21

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Statistics Probability	9	9
Engineering Electrical Electronic	4	12
Mathematics Applied	5	7
Acoustics		7
Mathematics	3	3
Computer Science Cybernetics		5
Computer Science Theory Methods		5
Economics		5
Computer Science Artificial Intelligence		3
Computer Science Information Systems		3
Physics Mathematical	1	2
Mathematics Interdisciplinary Applications		2
Management		1
Multidisciplinary Sciences		1
n.a.	1	
Operations Research Management Science		1
Physics Fluids Plasmas		1
Physics Multidisciplinary		1
Social Sciences Interdisciplinary		1
Social Sciences Mathematical Methods		1

**Total number of outputs:** outputs of the team published during the evaluated period 2015-2019.

**Evaluated outputs:** selected outputs submitted by the team to the Phase I of evaluation.

**Outputs used for bibliometry:** subset of all outputs registered in the Web of Science; document type: article, review or proceedings paper.

**Quality of outputs by journal ranking:** number of outputs in top decile (1\*) and quartiles (1-4) by AIS of journals; n. a. - outputs in journals without AIS; orange: outputs from the Phase I, blue: the other outputs of the team.

**Quality of outputs by intensity of citations:** number of outputs in the top decile (1\*) and in quartiles (1, 2, 3+4) determined from the list of outputs ordered by the number of citations (downloaded from the Web of Science at the beginning of evaluation) for each subject category, year, and type of output; n. a. – the data are not robust enough for relevant judgement; orange: outputs from the Phase I, blue: the other outputs of the team.

**Types of collaboration:** outputs created exclusively in a particular institute are marked by A1, outputs created within national cooperation by max. 5 organizations are marked by B, outputs created within international cooperation by max. 5 organizations are marked C, outputs created within large collaboration exceeding 5 organizations are marked D, outputs created within large international collaboration are marked E. It is distinguished by marking B1/B, C1/C and D1/D whether the output has/does not have a corresponding author from a particular team.

**Field structure of outputs:** number of outputs of the team in different subject categories (subfields); if the output is assigned to more than one field, the field where the publication performs best (assessed by Quality of outputs by journals ranking) is taken; the table shows up to 20 fields.

**Detailed explanation of the indicators is provided in the Methodology of evaluation, Annex 2 – Bibliometrics.**