

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.

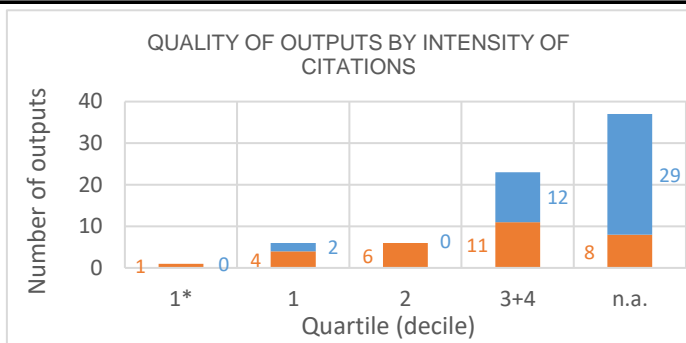
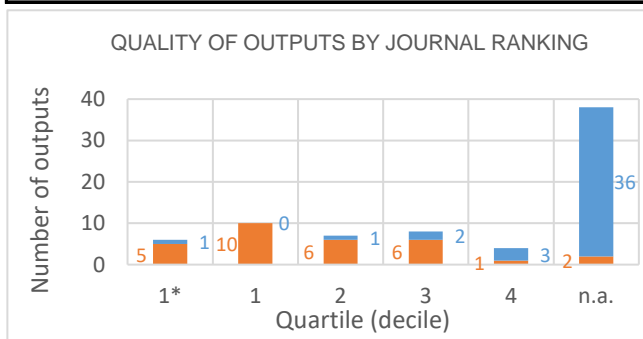
Institute: Institute of Information Theory and Automation of the CAS, v. v. i.

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 Technology | | 2 |
| Instruments Instrumentation | 2 | |
| Mathematics Interdisciplinary Applications | 1 | 1 |
| Meteorology Atmospheric Sciences | 2 | |
| Operations Research Management Science | 1 | 1 |
| Radiology Nuclear Medicine Medical Physics | | 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.

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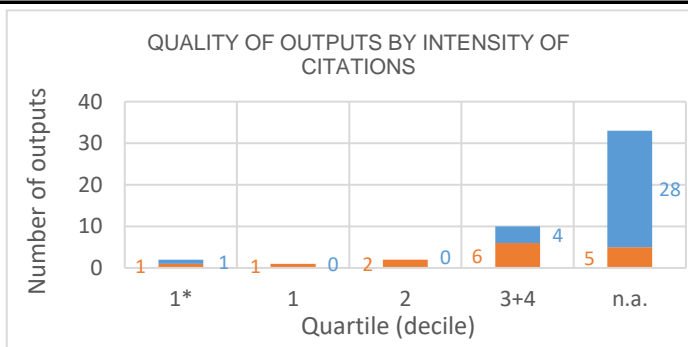
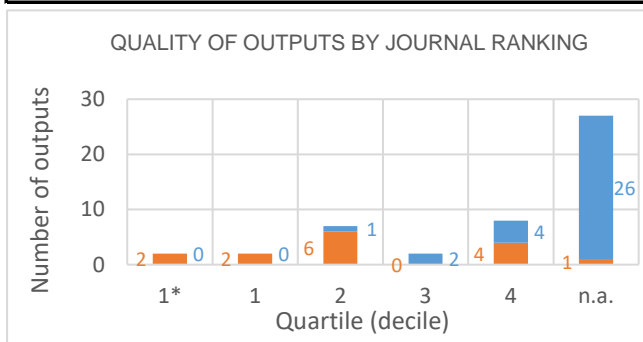
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Institute: Institute of Information Theory and Automation of the CAS, v. v. i.
Team: Department of Control Theory
Head: Prof. RNDr. Sergej Čelikovský, CSc.
Field: Electrical engineering, Electronic engineering, Information engineering
Total number 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 Applica | 7 | |
| Engineering Multidisciplinary | 4 | |
| Computer Science Artificial Intelligenc | | 3 |
| Computer Science Cybernetics | | 3 |
| Multidisciplinary Sciences | 3 | |
| Computer Science Information Syster | | 2 |
| Engineering Civil | 1 | 1 |
| Mathematics Applied | | 2 |
| Computer Science Interdisciplinary A | 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.

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

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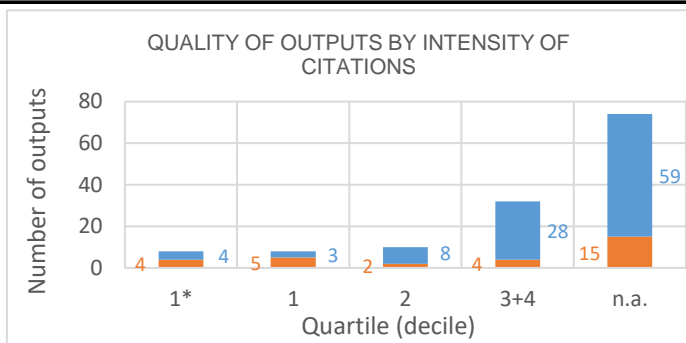
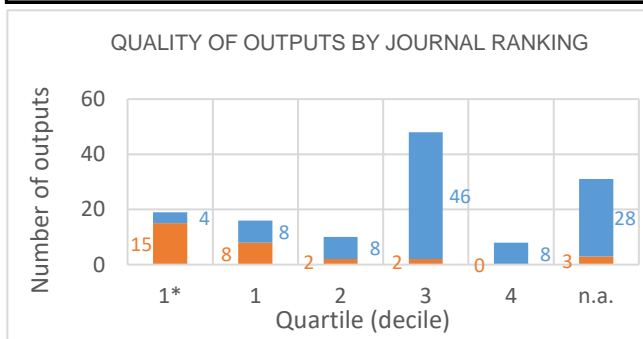
Institute: Institute of Information Theory and Automation of the CAS, v. v. i.

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 Applications | | 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 Applications | | 5 |
| Automation Control Systems | 3 | 1 |
| Engineering Electrical Electronic | 1 | 3 |
| Economics | | 3 |
| Philosophy | | 3 |
| Robotics | | 3 |
| Social Sciences Mathematical Methods | | 3 |

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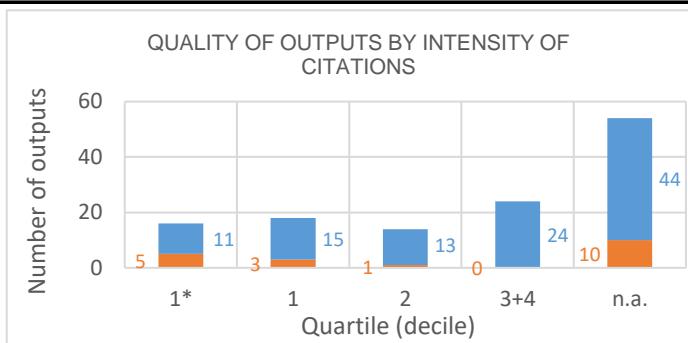
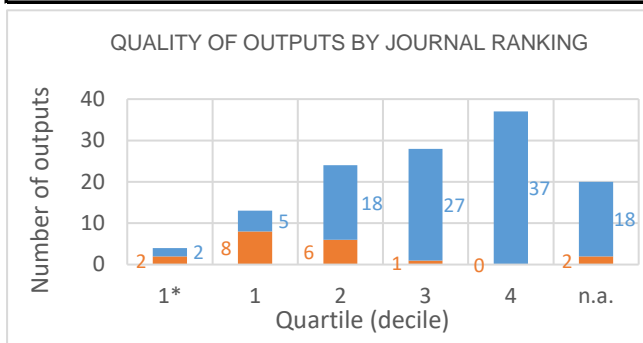
Institute: Institute of Information Theory and Automation of the CAS, v. v. i.

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 Syste | | 3 |
| Engineering Electrical Electronic | 2 | 1 |

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

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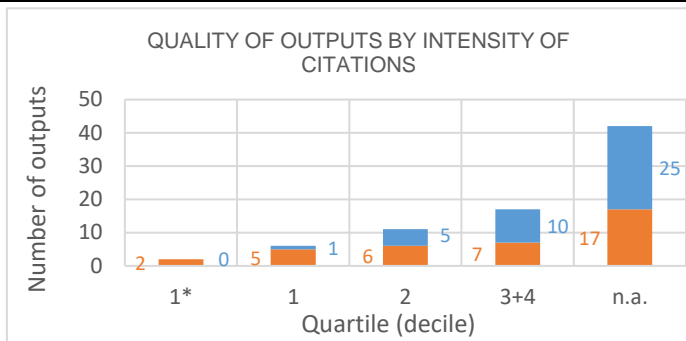
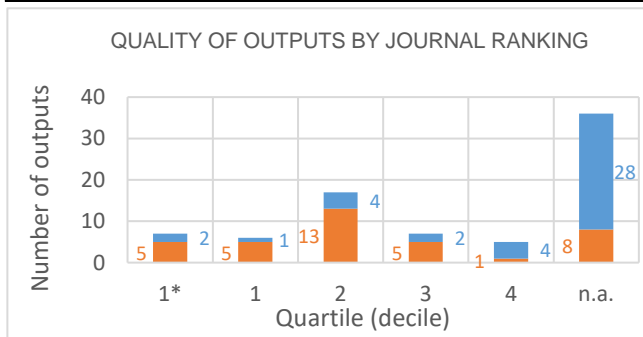
Institute: Institute of Information Theory and Automation of the CAS, v. v. i.

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 | |

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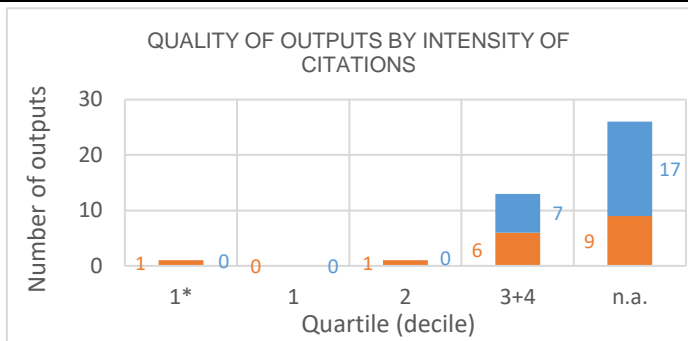
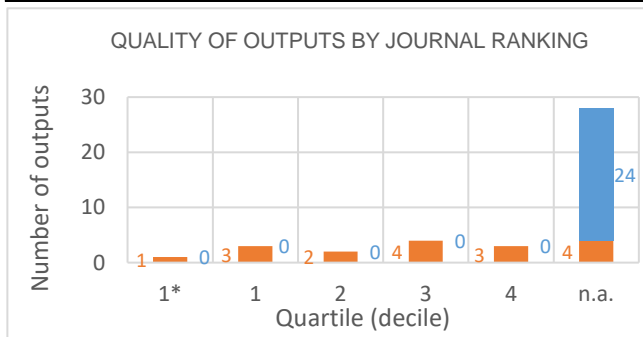
Institute: Institute of Information Theory and Automation of the CAS, v. v. i.

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 Syste | | 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 | |

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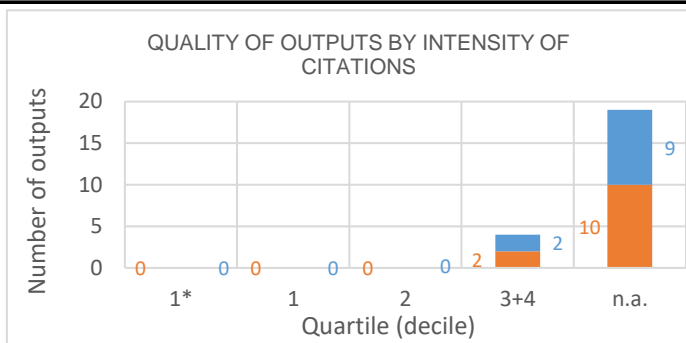
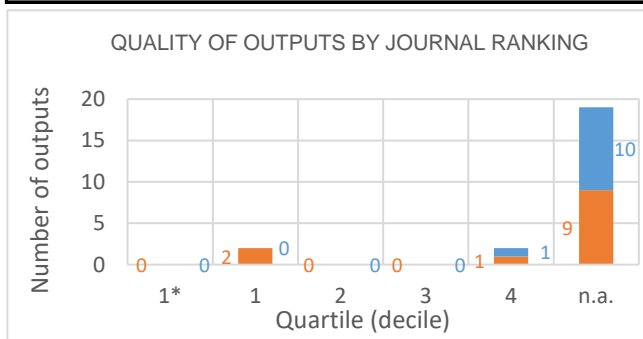
Institute: Institute of Information Theory and Automation of the CAS, v. v. i.

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 |

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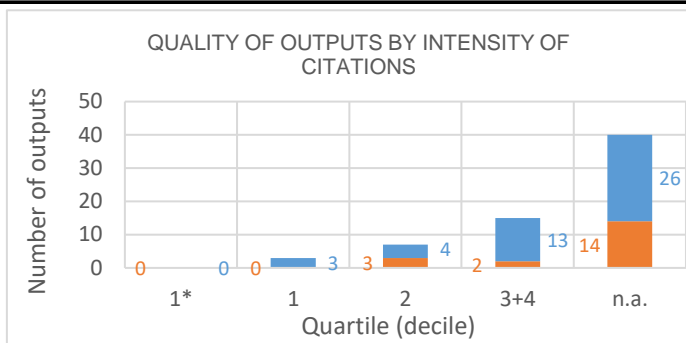
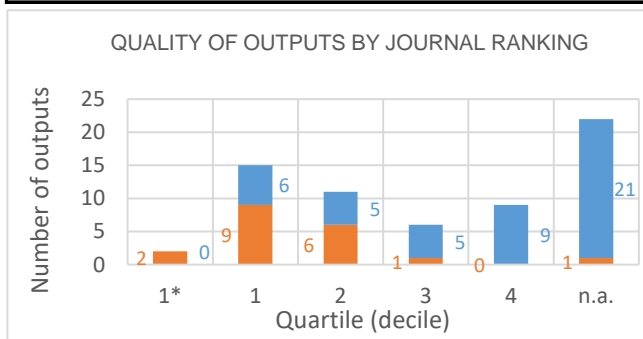
Institute: Institute of Information Theory and Automation of the CAS, v. v. i.

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.