
30 Years IWSM - A Historical Review

do you remember?

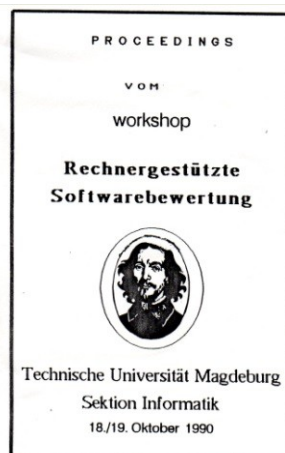
Reiner R. Dumke and Alain Abran

The Beginning of the IWSM in 1990

After the change in Germany, we contacted researchers in the field of (Empirical) Software Engineering at first in Germany. In the fall of 1990 we started with a small group of participants from Germany, France, Greece, Hungary and Norway with a 'Workshop'.



Proceedings as simple copies



Typical topics:

Metrics tools

Metrics classification

Code measurements

Test metrics

The Second Workshop 1992 in Vienna

The next workshop was embedded in the annually meeting of the German Society of Informatics (GI) Group 4.3.1 Requirements Engineering held At the Technical University of Vienna in Austria chaired by Prof. Kerner with participants of Germany, Austria and Switzerland.

Conference location



Social Event at the year's wine



Some papers are published in the Softwaretechnik-Trends



Typical topics:

Software metrics

Code measurement

Quality assurance

The Third Workshop 1993 in Stuttgart

The Metrics Workshop 1993 was held at the University of Stuttgart in the annually meeting of the German Society of Informatics (GI) Group 4.3.1 Requirements Engineering of Germany, Austria and Switzerland. The software engineering group of Prof. Jochen Ludewig as one of the leading metrics experts organized this event.

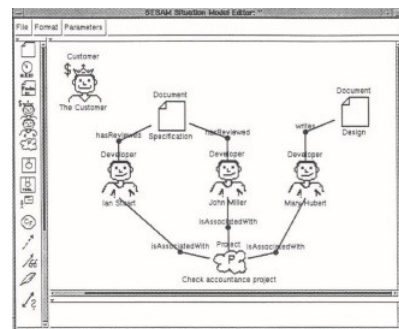
Conference location



Stuttgart' Tool:

SESAM:

an Approach for Simulation of Software Projects using Software Product and Process Metrics



Some papers was published in the first journal of the Metrics News



Typical topics:

Software measurement theory

Software metrics

OO measurement

Metrics tools

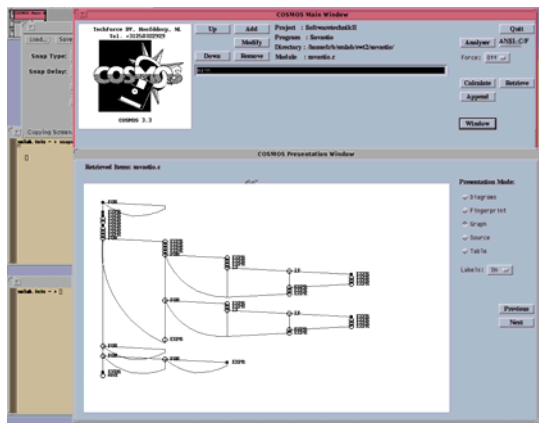
The Fourth Workshop 1994 in Magdeburg

The Metrics Workshop 1994 was held at the University of Magdeburg chaired by Prof. Reiner Dumke with participants of Germany, Netherlands, Norway and Switzerland.

Conference location



Discussion about measurement



Proceedings in a book



Typical topics:

Process metrics

Software test metrics

OO measurement

Metrics tools

Quality assurance

The Fifth Workshop 1995 in Berlin

The Metrics Workshop 1995 was held at the Technical University of Berlin chaired by Prof. Horst Zuse with participants of Germany, Austria and UK.

Conference location

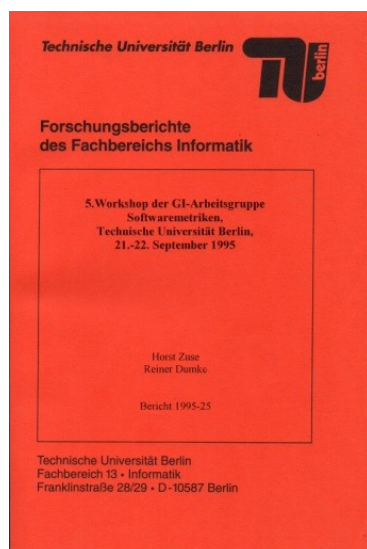


First version of Zuse's ZD MIS



*a description and analysis of more than
thousand software metrics*

Proceedings in a research report



Typical topics:

Quality assurance

Software reliability

OO metrics applications

Metrics tools

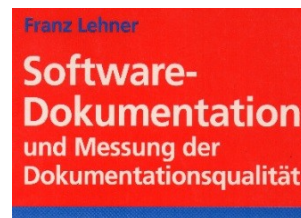
The Sixth Workshop 1996 in Regensburg

The Metrics Workshop 1996 was held at the University of Regensburg chaired by Prof. Franz Lehner with participants of Germany, Austria and Canada.

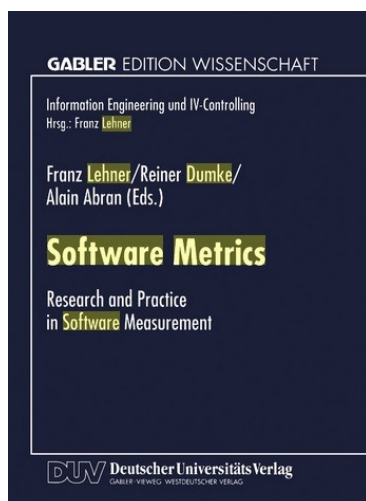
Conference participants



Prof. Lehner 's field of measurement



Proceedings in a book



Typical topics:

Documentation measurement

Software productivity

Java measurement

Software quality assurance

The Seventh Workshop 1997 in Mannheim

The Metrics Workshop 1997 was held at the University of Mannheim chaired by Prof. Franz Stetter with participants of Germany and Belgium.

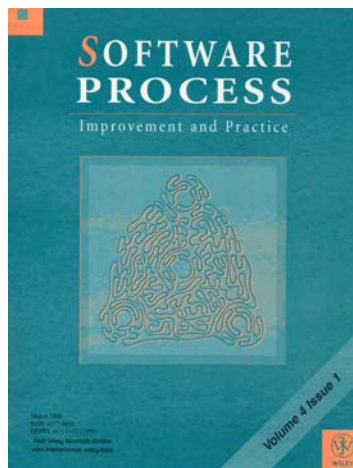
Conference participants



Prof. Stetter's book with an essential part of software measures



Selected papers were published in the Software Process journal



Typical topics:

Metrics data bases

Software reusability

OO design metrics

Quality improvement

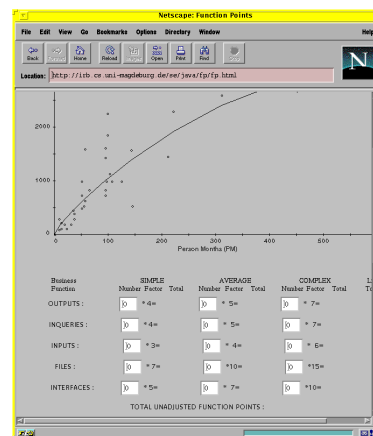
The Eighth IWSM Conference 1998 in Magdeburg

The Measurement Workshop 1998 was held at the University of Magdeburg chaired by Prof. Reiner Dumke with participants of Germany, Belgium, Canada, England, France, Italy and Netherlands.

Conference location

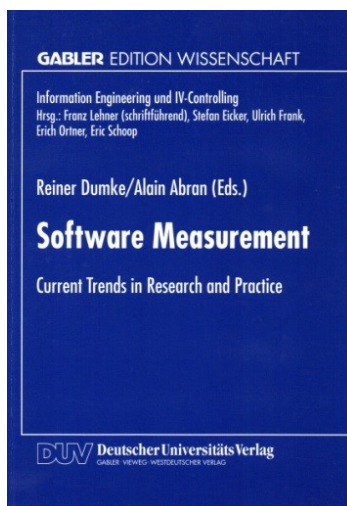


The tool implementation as Web application as e-measurement



the classical Function Points Web application

Proceedings in a book



Typical topics:

Measurement repositories

Metrics tool overview

OO design metrics

Project measurements

The Ninth IWSM Conference 1999 in Canada

The Measurement Workshop 1999 was held in the Caribou Lodge on Lac Supérieur near Montreal chaired by Prof. Alain Abran with participants of Canada, Germany, England, Italy and Netherlands.

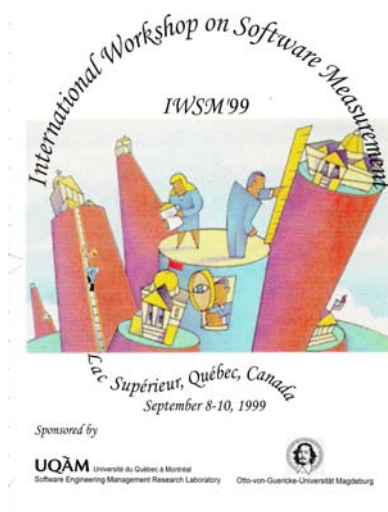
Conference location



Conference participants



Proceedings in a book



Typical topics:

- Project measurements**
- Full Function Point applications**
- Management tools**
- Measurement programs**

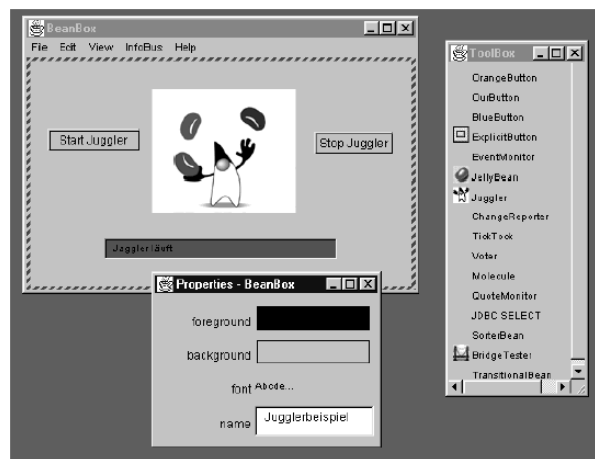
The 10th IWSM Conference 2000 in Berlin

The Measurement Workshop 2000 was held in Berlin chaired by Prof. Andreas Schmietendorf with participants of Germany, Canada, China, England and Italy.

Conference location



EAI research topic



Proceedings in a Springer book



Typical topics:

Component measurements

Software quality measures

COSMIC FFP

OO measurement

Cost/effort estimation

Performance engineering

The 11th IWSM Conference 2001 in Montreal

The IWSM Workshop 2001 was held in Montreal chaired by Prof. Alain Abran with participants of Belgium, Bulgaria, Canada, Germany, Italy, Morocco, Spain and USA.

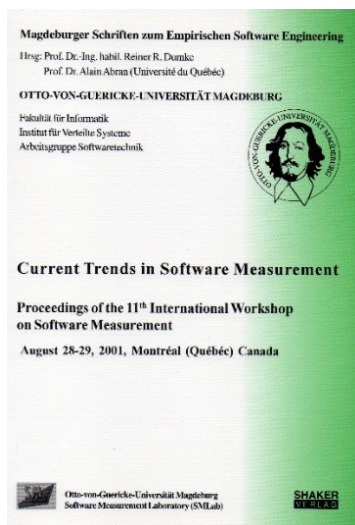
Conference location



Conference participants



Proceedings in a book



Typical topics:

Process measurements

COSMIC FFP applications

Cost estimation

Software agent measurement

Measurement processes

The 12th IWSM Conference 2002 in Magdeburg

The Measurement Workshop 2002 was held in Magdeburg chaired by Prof. Reiner Dumke with participants of Bulgaria, Canada, Finland, Germany, Hungary, Netherlands, UK and Italy.

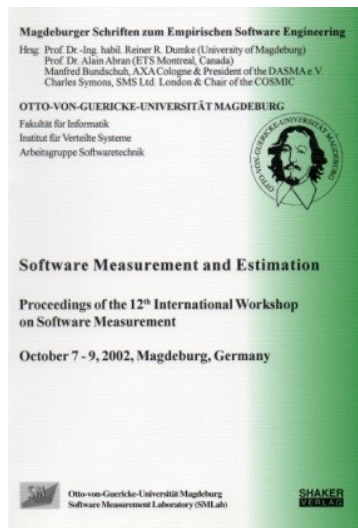
Conference location



Conference participants



Proceedings in a book



Typical topics:

Software metric database

COSMIC FFP applications

Maintenance measurement

Performance measurement

Testability metrics

Quality evaluation

The 13th IWSM Conference 2003 in Montreal

The Measurement Workshop 2003 was held in Montreal chaired by Prof. Alain Abran with participants of Belgium, Canada, Germany, India, Italy, Japan, Netherlands, UK, USA and Vietnam.

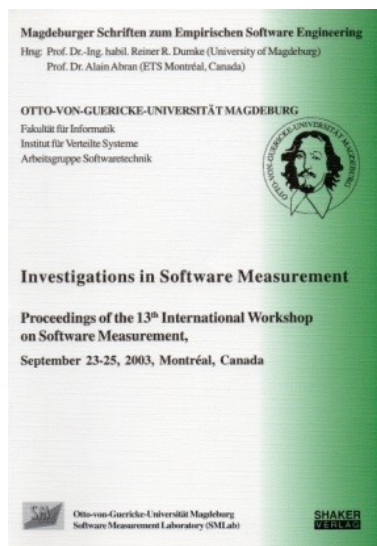
Conference location



Conference speakers



Proceedings in a book



Typical topics:

The COSMIC FP measurement standard IEC/ISO 19761

Software measure validation

Usability measurement

ISBSG estimations

Performance measurement

Process improvement

The 14th IWSM Conference 2004 in Berlin

The Measurement Workshop 2004 was held in Montreal chaired by Prof. Andreas Schmietendorf with participants of Argentina, Australia, Austria, Bahrain, Belgium, Canada, Finland, France, Germany, Italy, Netherlands, Spain, Switzerland, UK and USA.

Conference participants



Conference speakers



Proceedings in a book (more than 600 pages)



Typical topics:

Functional size measurements

Cost estimation models

Software reliability

Project management

ISBSG benchmarking

Software measurement efficiency

The 15th IWSM Conference 2005 in Montreal

The Measurement Workshop 2005 was held in Montreal chaired by Prof. Alain Abran with participants of Argentina, Australia, Austria, Bahrain, Belgium, Brazil, Bulgaria, Canada, Finland, France, Germany, Ghana, Italy, Netherlands, Poland, Slovenia, Spain, Switzerland, UK, USA and Vietnam.

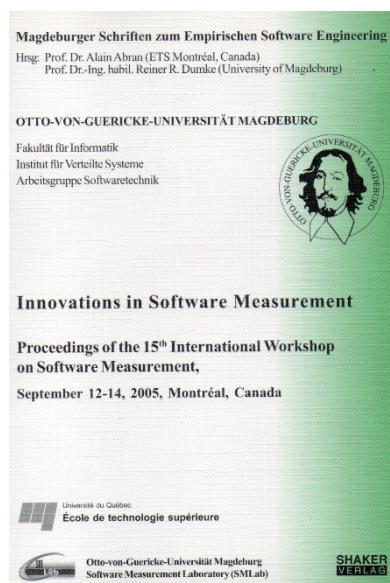
Conference speakers



Conference pause



Proceedings in a book



Typical topics:

COSMIC FP measurements

Effort estimation models

Measurement services

Benchmarking

Offshore measurements

Measurement convertibility

The 16th IWSM Conference 2006 in Potsdam

The Measurement Workshop 2006 was held in Potsdam chaired by Günter Büren with participants of Argentina, Australia, Austria, Bahrain, Belgium, Brazil, Bulgaria, Canada, Finland, France, Germany, Ghana, Italy, Netherlands, Slovenia, Spain, Switzerland, UK, USA and Vietnam.

Conference location



Conference discussions



Proceedings in a book



Typical topics:

Software cost modelling

Software quality assessments

Ontology-based measurements

Measurement processes

Use Case Points

COSMIC FP certification

The 17th IWSM/MENSURA 2007 in Mallorca

The Measurement Workshop 2007 was held in Mallorca (Spain) together with the second MENSURA conference chaired by Prof. Juan Cuadrado-Gallego with participants of Austria, Belgium, Canada, Finland, France, Germany, Italy, Japan, Netherlands, Spain, Sweden, Switzerland, UK and USA .

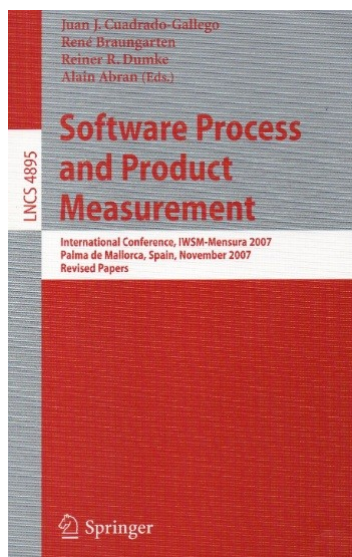
Conference chaires



Conference participants



Proceedings in a Springer book



Typical topics:

Functional size measurements

Agile process measurements

Functional size database

Multi-site empirical studies

ISBSG benchmarking

COSMIC FP real-time applications

The 18th IWSM/MENSURA 2008 in Munich

The Measurement Workshop 2008 was held in Munich chaired by Manfred Bundschuh with participants of Austria, Canada, Finland, France, Germany, Italy, Netherlands, Pakistan, Spain, Sweden, Switzerland, Turkey and UAE.

Conference publication

 **IWSM 2008**
18th International Workshop
on Software Measurement

 **MetriKon 2008**
DASMA Metrik Kongress

Mensura 2008
International Conference
on Software Process and Product Measurement

18.-19. November 2008, Siemens AG, München

von **DASMA** Deutschsprachige Anwendergruppe für
Software-Metrik und Aufwandschätzung
GI Fachgruppe Software messen und bewerten

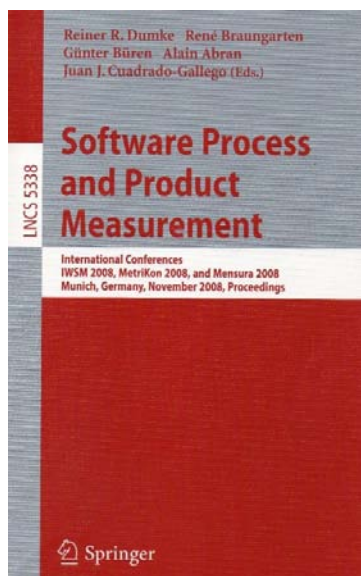
zusammen mit: Canadian Interest Group on Metrics
COMmon Software Measurement International Consortium
Metrics Associations International Network
Universität Magdeburg,
École de Technologie Supérieure – Université du Québec, Kanada,
University of Alcalá, Madrid, Spanien

unterstützt von: Siemens AG, München

Conference participants



Proceedings in a Springer book



Typical topics:

Quality-driven service orchestration

Measuring million lines of code

Cloud computing measurements

COSMIC FP based estimations

Software project control

Six Sigma applications

The 19th IWSM/MENSURA 2009 in Amsterdam

The Measurement Workshop 2009 was held in Amsterdam chaired by Prof. Jacob Brunekreef with participants of Argentina, Australia, Austria, Belgium, Canada, Finland, Germany, Italy, Netherlands, Spain, Switzerland, Turkey and UAE.

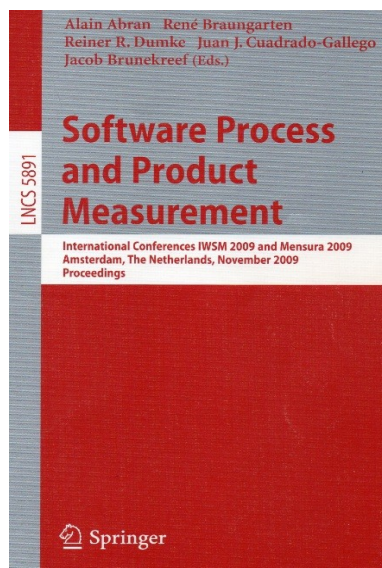
Conference participants



Social Event in Amsterdam



Proceedings in a Springer book



Typical topics:

- Measurement systems**
- Risks assessment methods**
- COSMIC FP applications**
- Web development effort**
- Suggestions for benchmarking**
- Measurer qualifications**

The 20th IWSM/MENSURA 2010 in Stuttgart

The Measurement Workshop 2010 was held in Stuttgart chaired by Dr. Christof Ebert with participants of Australia, Austria, Belgium, Canada, Finland, France, Germany, Italy, Japan, Netherlands, Spain, Switzerland, Turkey and USA.

Conference participants



Event in the Porsche Museum



Proceedings in a book



Typical topics:

Effort estimation

Cost estimation models

Quality assurance in agile development

Project controlling

ISBSG benchmarking

Design metrics for UML

The 21th IWSM/MENSURA 2011 in Japan

The Measurement Workshop 2011 was held in Nara (Japan) chaired by Prof. Kenichi Matsumoto with participants of Belgium, Canada, Germany, Italy, Netherlands, Slovenia, Spain, Switzerland and UK.

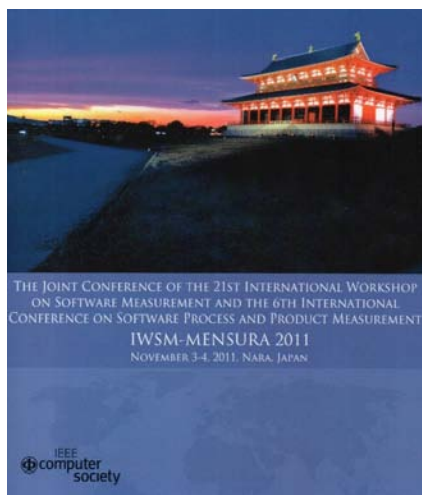
Conference participants



Conference location



Proceedings in an IEEE book



Typical topics:

Functional size measurements

Repository mining

Efficient machine learning

Quality assessments

Human performance

Entropy-based measurements

The 22th IWSM/MENSURA 2012 in Assisi

The Measurement Workshop 2012 was held in Assisi (Italy) chaired by Luca Santillo with participants of Austria, Belgium, Canada, Finland, France, Germany, Italy, Netherlands, Spain, Sweden, Switzerland, Turkey and UK.

Conference location



Conference speakers



Proceedings in a book and in the IEEE Conference Publishing Service

IWSM MENSURA 2012 A

2012 Joint Conference of the 22nd International Workshop on
Software Measurement and
the 2012 Seventh International Conference on
Software Process and Product Measurement

(IWSM-MENSURA 2012)

Published by



17-19 October 2012 – GUFPI-ISMA, Assisi, Italy

Typical topics:

Quality of effort estimation

SOA measurements

COSMIC FP real-time applications

Fuzzy logic approaches

FP metrics convertibilities

Measurement frameworks

The 23th IWSM/MENSURA 2013 in Turkey

The Measurement Workshop 2013 was held in Ankara (Turkey) chaired by Prof. Onur Demirörs with participants of Austria, Belgium, Canada, Germany, Italy, Netherlands, Poland, Spain, Sweden, Switzerland, Turkey and UK.

Conference location



Conference speakers



Proceedings in the IEEE Conference Publishing Service



Typical topics:

Fast functional size measurements

Software reuse measurement

Agile development measures

Project management

Maintenance measurements

Experience reports

The 24th IWSM/MENSURA 2014 in Rotterdam

The Measurement Workshop 2014 was held in Rotterdam chaired by Frank Vogelesang with participants of Austria, Belgium, Canada, Finland, Germany, Italy, Netherlands, Poland, Spain, Sweden, Switzerland, Turkey and UK.

Conference location



Conference speakers



Proceedings in the IEEE Conference Publishing Service (CPS)



Typical topics:

COSMIC FP for mobile Apps

Automotive software measurements

Software estimation models

Measurement process improvement

Performance measurements

GQM extentions

The 25th IWSM/MENSURA 2015 in Poland

The Measurement Workshop 2015 was held in Craków (Poland) chaired by Prof. Andrzej Kobylinski with participants of Austria, Belgium, Canada, Finland, Germany, Italy, Netherlands, Poland, Spain, Sweden, Switzerland and UK.

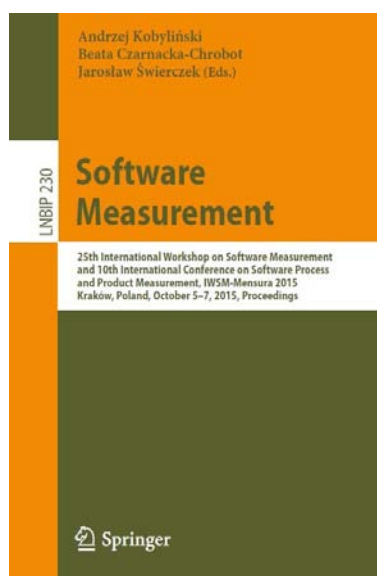
Conference location



Conference speakers



Proceedings in a Springer book



Typical topics:

Early and rapid COSMIC applications

Cost models evaluation

Measurement dashboards

Agile team productivity

Measurement-as-a-Service

Metrology standards application

The 26th IWSM/MENSURA 2016 in Berlin

The Measurement Workshop 2016 was held in Berlin chaired by Prof. Andreas Schmietendorf with participants of Australia, Austria, Belgium, Canada, Finland, France, Germany, Italy, Netherlands, Poland, Spain, Sweden, Switzerland, Turkey, UK and USA.

Conference location



Conference sessions



Proceedings in the IEEE Conference Publishing Service (CPS)



Typical topics:

Functional size measurement patterns

Cost estimation models

Requirements measurements

Web accessibility measurement

Benchmarking, Data Analytics

Server license balancing measures

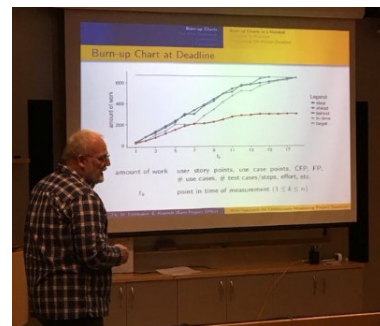
The 27th IWSM/MENSURA 2017 in Sweden

The Measurement Workshop 2017 was held in Gothenburg (Sweden) chaired by Prof. Miroslav Staron with participants of Austria, Belgium, Canada, Finland, France, Germany, Italy, Netherlands, Poland, Spain, Sweden, Switzerland, Turkey and UK.

Conference location



Conference speakers



Proceedings in the ACM International Conference Publishing Service (ICPS)

International Conference Proceeding Series (ICPS) Search within Proceedings

Home > ICPS Proceedings > IWSM Mensura '17

IWSM Mensura '17: Proceedings of the 27th International Workshop on Software Measurement and 12th International Conference on Software Process and Product Measurement

2017 Proceeding

General Chairs: Miroslav Staron, Wilhelm Meding, Program Chairs: + 2

Publisher: Association for Computing Machinery, New York, NY, United States

Conference: IWSM/Mensura '17: 27th International Workshop on Software Measurement and 12th International Conference on Software Process and Product Measurement • Gothenburg Sweden • October, 2017

ISBN: 978-1-4503-4853-9

Typical topics:

**Measurement patterns
& anti-patterns**

Scope management

Service maintenance measures

Project flow analytics

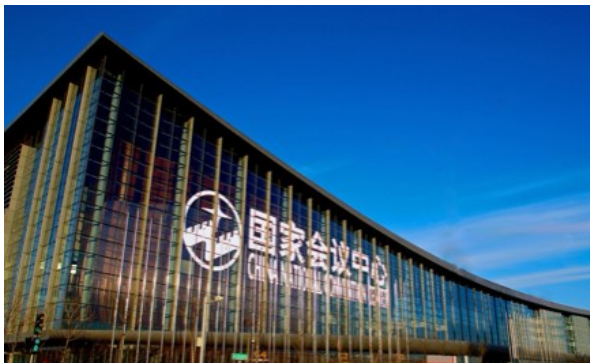
Automated FP measurement

Software effort estimation

The 28th IWSM/MENSURA 2018 in China

The Measurement Workshop 2018 was held in Beijing (China) chaired by Prof. Chen Zong with participants of China, Canada, Italy, Netherlands, Sweden, Turkey and UK.

Conference location



Conference participants



Proceedings in the CEUR proceedings service

CEUR Workshop Proceedings
http://ceur-ws.org
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IWSM MENSURA
Beijing 18-20 September 2018
WHERE ACADEMIC IDEAS MEET INDUSTRY PRACTICE ON SOFTWARE M

IWSM-Mensura 2018
COSMIC Function Points - Fundamentals for Software Effort Estimation

Proceedings of the Academic Papers at IWSM Mensura 2018 "COSMIC Function Points - Fundamentals for Software Effort Estimation" held in conjunction with The China Software Cost Measurement Conference (CSCM 2018)

Beijing, China, September 19-20, 2018.

Edited by
Murat Salmanoglu *
Ahmet Coskuncay **

Typical topics:

COSMIC FP measurements

Early estimation methods

Measurement mobile apps

Measures correlations

Scrum measurements

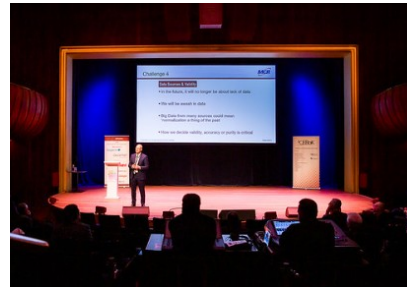
The 29th IWSM/MENSURA 2019 in Haarlem

The Measurement Workshop 2019 was held in Haarlem (Netherlands) chaired by Frank Vogelezang with participants of Austria, Belgium, Canada, Finland, France, Germany, , Italy, Netherlands, Spain, Sweden, Switzerland, Turkey and UK.

Conference location



Conference speakers



Proceedings in the CEUR proceedings service

CEUR
Workshop
Proceedings

<http://ceur-ws.org>
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IWSM-Mensura 2019
International Workshop on Software Measurement and International Conference on Software Process and Product Measurement 2019

Joint Proceedings of the International Workshop on Software Measurement and the International Conference on Software Process and Product Measurement (IWSM Mensura 2019)

Haarlem, The Netherlands, October 7-9, 2019.

Edited by
Ayca Kolukisa Tarhan *
Ahmet Coskuncay **

Typical topics:

Portfolio estimations

MENSURA COSMIC tool

Effort estimation teaching

Blockchain-based projects

COSMIC scaling factors

Software reliability

The 30th IWSM/MENSURA 2020 in Mexico

The Measurement Workshop 2020 was held in Mexico City chaired by Prof. Andreas Schmietendorf with participants of Argentina, Australia, Austria, Bahrain, Belgium, Brazil, Bulgaria, Canada, Finland, France, Germany, Ghana, Italy, Netherlands, Slovenia, Spain, Switzerland, UK, USA and Vietnam.

Conference publication



THANKS and CONGRATULATION
to our Measurement Community !
