

in vivo
software
analytics

**Big
Software
on the
Run**

BSR meeting
4-12-2015
Eindhoven

<http://www.3tu-bsr.nl/>

Agenda project meeting Big Software on the Run, December 4, 2015

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TUDelft
Delft University of Technology

Annibale Panichella



Bart Postma



TUDelft
Delft University of Technology

Arie van Deursen



TU/e

Boudewijn van Dongen



UNIVERSITEIT TWENTE.

Arnd Hartmanns



TUDelft
Delft University of Technology

secr.

Caroline de Wit



Cong Liu



Eric Verbeek



Gamze Tillem



Huub van de Wetering



Inald Lagendijk



Ine van der Ligt



secr.

UNIVERSITEIT TWENTE.



PhD
Ext.

Maikel Leemans



Jack van Wijk

TU/e



Jaco van der Pol

UNIVERSITEIT TWENTE.



Marieke Huisman



Mariëlle Stoelinga

UNIVERSITEIT TWENTE.

**Postdoc
BSR**



Nour Assy



secr.



**PhD
BSR**

UNIVERSITEIT TWENTE.

Vincent Bloemen



Wil van der Aalst



Zekeriya Erkin

Cong Liu (TU/e)

Nour Assy (TU/e)

Bart Postma (TU/e)

Vincent Bloemen (UT)

Mozhan Sultani (TUD feb2016)

Annibale Panichella (TUD)

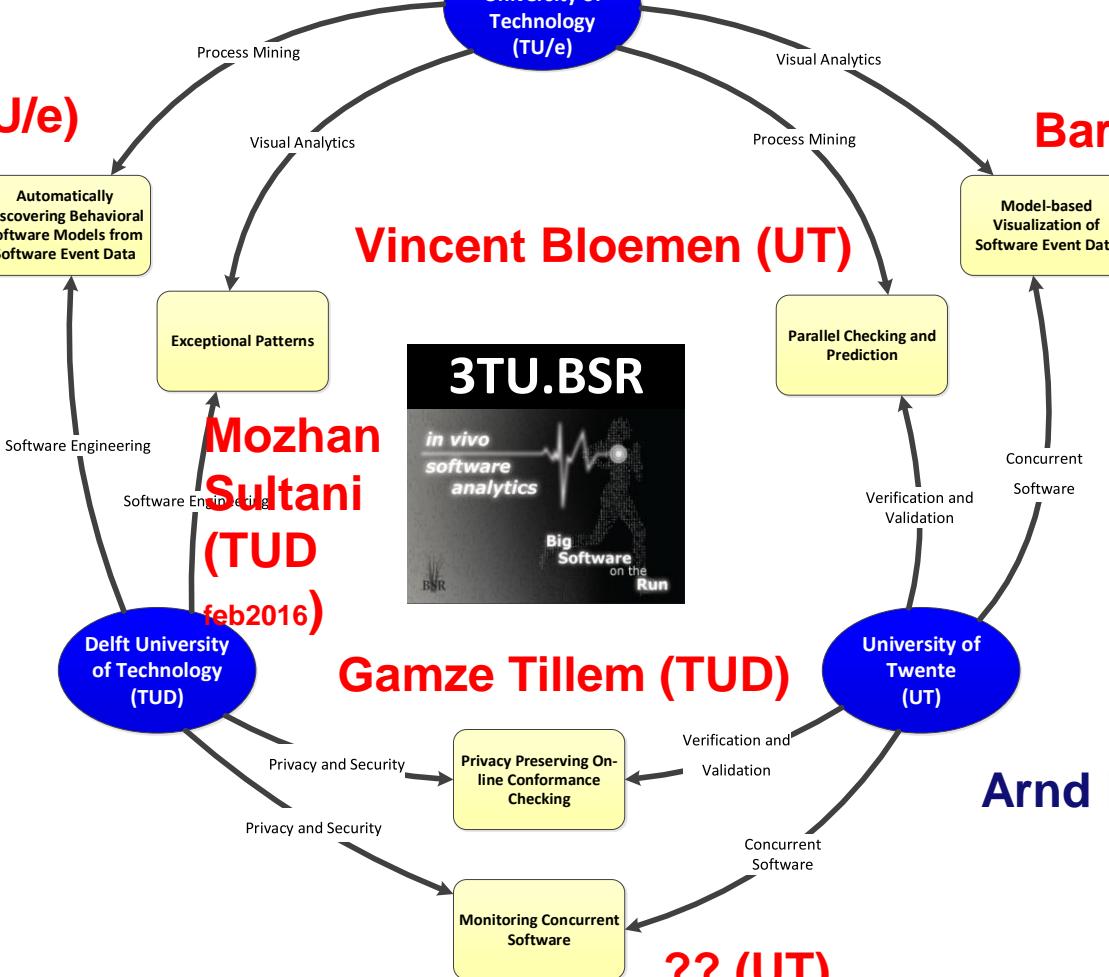
Gamze Tillem (TUD)

Arnd Hartmanns (UT)

Monitoring Concurrent Software

?? (UT)

Privacy Preserving Online Conformance Checking



2015 - BSoR uitgaven en prognose

	2014	Aangepaste schatting		Aangepaste schatting		Aangepaste schatting		Aangepaste schatting		Totaal aangepaste schatting	
		2015	2015	2016	2016	2017	2017	2018	2018		
TU/e											
2 Promovendi	€ 0	€ 47,147		€ 94,293		€ 94,293		€ 94,293		€ 377,172	
Promovendus Liu			€ 19,520		€ 47,104		€ 48,046		€ 29,159	€ -	
Promovendus Postma			€ 15,616		€ 47,104		€ 48,046		€ 29,159	€ 192,836	
1 Postdoc	€ 0	€ 35,156	€ 10,492	€ 70,311	€ 63,296	€ 70,311	€ 64,562	€ 35,156	€ 65,853	€ 210,934	
Computer	€ 0	€ 4,000	€ 4,000							€ 4,000	
Conferences, travel	€ 0	€ 2,500	€ 0	€ 5,500	€ 6,750	€ 5,500	€ 6,750			€ 13,500	
Other		€ 4,250	€ 1,000	€ 4,250	€ 5,875	€ 4,250	€ 5,875			€ 12,750	
Infrastructure voor gehele project, inclusief software, speciale hardware, website, ...	€ 0	€ 20,000	€ 0	€ 60,000	€ 70,000	€ 20,000	€ 30,000			€ -	
Organisatiekosten workshops, symposia, guests, ...	€ 0	€ 10,000	€ 0	€ 20,000	€ 25,000	€ 20,000	€ 25,000			€ 50,000	
TU/e totaal	€ 0	€ 123,053	€ 50,628	€ 254,354	€ 265,129	€ 214,354	€ 228,279	€ 129,449	€ 163,867	€ 47,147	€ 58,318
											€ 768,356
											€ 766,222
UT											
2 Promovendi	€ 0	€ 45,222	€ 19,457	€ 90,444	€ 81,040	€ 90,444	€ 91,753	€ 90,444	€ 96,102	€ 45,222	
1 Postdoc	€ 0	€ 35,761	€ 14,183	€ 71,523	€ 57,257	€ 71,523	€ 59,344	€ 35,761	€ 45,652	€ 36,926	
Computer	€ 0	€ 4,000	€ 3,000		€ 1,000					€ 361,776	
Conferences, travel	€ 0	€ 4,000	€ 1,000	€ 8,000	€ 8,000	€ 8,000	€ 8,000		€ 214,568		
Other		€ 5,450	€ 1,000	€ 5,450	€ 5,450	€ 5,450	€ 5,450			€ -	
UT totaal	€ 0	€ 94,433	€ 38,639	€ 175,417	€ 152,747	€ 175,417	€ 164,547	€ 126,205	€ 149,203	€ 45,222	€ 111,557
											€ 616,694
											€ 616,694
TUD											
2 Promovendi	€ 0	€ 43,722	€ 7,287	€ 87,444	€ 87,444	€ 87,444	€ 87,444	€ 87,444	€ 43,722	€ 80,157	
2 * 1/2 Postdoc	€ 0	€ 35,806	€ 23,871	€ 71,613	€ 71,613	€ 71,613	€ 83,549	€ 35,806	€ 35,807	€ 349,776	
Computer	€ 0	€ 4,000								€ 349,776	
Conferences, travel	€ 0	€ 5,500	€ 3,000	€ 11,000	€ 13,500	€ 11,000	€ 11,000			€ 214,838	
Other		€ 6,275	€ 1,000	€ 6,275	€ 8,550	€ 6,275	€ 9,275			€ 27,500	
TUD totaal	€ 0	€ 95,303	€ 35,158	€ 176,332	€ 181,107	€ 176,332	€ 191,268	€ 123,250	€ 123,251	€ 43,722	€ 80,157
											€ 614,939
											€ 614,940
3TU TOTAAL	€ 0	€ 312,789	€ 124,425	€ 606,103	€ 598,983	€ 566,103	€ 584,094	€ 378,904	€ 436,321	€ 136,091	€ 250,032
											€ 1,999,989
											€ 1,997,856

[Action point (UT/TUD): Fill vacancies as soon as possible. In particular the PhD positions. Unclear how long this can be postponed without losing funding.]

[Action point (All): Share information on extracting event from software, e.g., the work of Maikel and Cong to extract data.]

[Action point (Cong): Generate datasets from ProM using RapidMiner and distribute them.]

[Action point (Jaco): Generate (synthetic) datasets for concurrent software settings and distribute them.]

[Action point (Arie): Get in touch with Eclipse to obtain data from error-reporting or usage.]

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[Action point (Arie): Get in touch with LogStack / Log4J / Holistic search / Kibana.]

[Action point (Sicco): Setting up a software-mining competition.]

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[Action point (Boudewijn): Try to get car data from automotive people at TU/e.]

[Action point (Jaco): Set up a GIT repository at UT. Send around an e-mail on how to use it. Start with a pragmatic directory structure (meetings, contact info, shared files).]

[Action point (Ine): Collect all slides and send to Jaco for repository.]

[Action point (Ine/Boudewijn/Eric): Set up a mailing list and a continuous updated spreadsheet with names, e-mail addresses, and role in project.]

[Action point (Ine/Boudewijn/Eric and later Nour Assy): Update the website to show the list of people involved (with pictures, etc.) and other information we have. Send content/news you would like to be mentioned. Create first news item on the kick-off meeting.]

[Action point (Boudewijn/Eric): fix URL change, should stay www.3tu-bsr.nl, check payment of www.3tu-bsr.nl, make sure the website is linked properly from various sources]

[Action point (Mariëlle): Approach magazines like AG and Bits and Chips and try to get BSR articles in.]

[Action point (Ine): Plan the meetings and trigger the organizers. There should be a calendar online (website).]

[Action point (Boudewijn): Develop a plan to purchase secure servers (and storage) to be hosted at one site (hosted at 3TU or TU/e?).]

[Action point (All). If any special software needed, please request it ASAP (send e-mail to Wil and Ine).]

[Action point (All). Please send workshop proposals to Wil and Ine. There seems to be ample funding to support several events, so use it.]

[Action point (Wil). Winter school. Form a program board, propose a location, ask for potential speakers.]

We agreed on the following:

- Rotating one-day courses for the PhD students and PostDocs. All 6 visit each of the three universities and do a course-day on the research topics/basic done at the location, e.g., when visiting Eindhoven there would be half a day on process mining and half a day on visualization. The hosts will make the days as attractive as possible. The social element is also important and there is budget to organize such courses. We will do two rounds, i.e., in total 6 course days starting in November.
- The whole consortium will meet 3-4 times per year. The next meeting will be in Eindhoven again. After that we go the TUD and UT and continue to rotate. These meetings are back-to-back with the one-day courses (PhD and PostDocs can stay overnight).

- Respond to emails!
- Who is responsible for each node?
- **Proposal: 23rd+24th of March 2016**
 - 23rd one-day courses for the PhD students and PostDocs
 - 24th consortium meeting 13.30-17.00 (or earlier?)

Trace: START

[Home](#)[News](#)[People involved](#)[Meetings](#)[Minutes](#)**newsitems**

3TU.BSR: Big Software on the Run



... by different people at different times, and operating on a variety of platforms - drive the resulting software needs to evolve and can no longer be controlled *a priori* as is illustrated by a range of examples. The research program will develop novel techniques and tools to analyze software systems *in vivo* - making it possible to visualize behavior, create models, check conformance, predict problems, and recommend corrective actions.

Prof.dr.ir. Wil van der Aalst (Eindhoven University of Technology)

[start](#)

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3TU.BSR: Big Software on the Run
Summary

Motivation: Big Software on the Run
3TU.BSR: NIRICT's Response to Big Software on the Run



**Action point
Nour with reps.
UT & TUD ??**

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BSR Winter School (just a proposal!)

- Title: **Winter School on Big Software on the Run (BSR) – Where Data and Software Meet**
- Duration: from Sunday afternoon until Friday noon.
- Period: 16 October 2016 – 21 October 2016
- Location: Near de Hoge Veluwe (e.g., Hotel de Paasberg, Ede <http://hoteldepaasberg.nl/>)
 - Reachable from Schiphol and central
 - Possible excursions: Cycling / Kröller-Müller Museum

Goals BSR Winter School

- Promote BSR
- Educate young researchers and motivate them to work on these topics
- Connect to other groups
- Invite high-profile researchers from abroad
- Create BSR community

Week Schedule BSR

	Sunday 16-10	Monday 17-10	Tuesday 18-10	Wednesday 19-10	Thursday 20-10	Friday 21-10
9.00-10.30		Lecture 1 (BSR-Wil)	Lecture 5 (Ext)	Lecture 9 (Ext)	Lecture 11 (BSR-Inald)	Lecture 15 (Ext)
11.00-12.30		Lecture 2 (Ext)	Lecture 6 (BSR-Jaco)	Lecture 10 (Ext)	Lecture 12 (Ext)	Lecture 16 (Ext)
Lunch Break						
14.00-15.30		Lecture 3 (BSR-Arie)	Lecture 7 (Ext)	excursion	Lecture 13 (BSR-Marielle/Marieke)	
16.00-17.30	arrival	Lecture 4 (Ext)	Lecture 8 (BSR-Jack)		Lecture 14 (Ext)	
18.00-19.00	walk	Hands-on session (TU/e)	Hands-on session (TUD)		Hands-on session (UT)	
dinner						

Speakers

- **6 BSR slots**
 - 2 slots TU/e, 2 slots TUD, 2 slots UT
- **10 externals slots**
 - $4 * 2 = 8$ slots for foreign high profile researchers
 - 2 slots for external Dutch speakers (could also be industry)
- **3 hands-on sessions: each partner is responsible for one slot (linked to lectures)**

Participants

- **BSR PhDs:** 6
- **BSR Postdocs:** 3
- **BSR staff:** 6 (on average)
- **Invited speakers:** 2 (NL) + 4 (foreign) = 6
- **External participants:** 30-40

Organization

- **School directors:** Arie van Deursen + Wil van der Aalst
- **Scientific board:** Jaco van der Pol, Jack van Wijk, Boudewijn van Dongen, Marieke Huisman, Inald Lagendijk, Annibale Panichella, Mariëlle Stoelinga
- **Organizing committee:** all BSR PhDs and postdocs, chaired by Nour Assy and supported by Ine van der Ligt.

Costs (very wild guess)

- $60 * 5 \text{ nights} * 110 = 33,000$ (food + sleep)
- travel costs 4 speakers * $1250 = 5,000$
- Excursion $60 * 35 = 2,100$
- Say 40,000 in total
- BSR pays 20,000
- Fees: $30 * 450 \text{ euro} = 13,500$
- Gap: 6,500 euro
- Sponsors (NIRICT?)
- Risks are for BSR!

Timing

- Now: agreement on set-up and green light to implement logistics
- Before December 20th: generate names of speakers
- January 15th : ranking speakers and invitation
- January 15th : fixed logistics + first call of participation (without speaker names)
- March 1st : fixed program + second call for participation + posters/flyers
- April 1st: outline hands-on sessions

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