RESEARCH OUTPUTS / RÉSULTATS DE RECHERCHE

Novice Programmers

Henry, Julie; Dumas, Bruno

Publication date: 2017

Document Version Publisher's PDF, also known as Version of record

Link to publication

Citation for pulished version (HARVARD): Henry, J & Dumas, B 2017, 'Novice Programmers: What is the Match between Needs, Concepts and Learning Tools?', Koli Calling 2017, Koli, Finland, 16/11/17 - 18/11/18.

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
 You may freely distribute the URL identifying the publication in the public portal?

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Download date: 17. May. 2025

Novice Programmers: What is the Match between Needs, Concepts and Learning Tools?

Julie Henry (julie.henry@unamur.be) & Bruno Dumas

a large number of individual characteristics



"personal user characteristics" prior acquired knowledge and skills. "system related user characteristics" Granić and Nakić (2010)

novices' needs



Offer everyone the opportunity to learn with the most appropriate tool for each concept

variable

programming concepts

conditional function structure







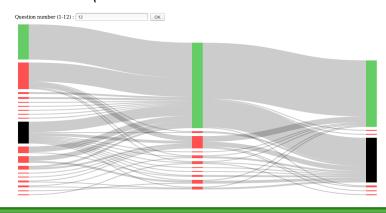
This research has two main phases: a first one with an education-oriented goal...

Define the needs of novices according to their profile Identify the most appropriate tool(s) for each concept AND for a particular student profile

HOM ?

surveys Dehnadi test (2009) interviews observations evaluations etc.

for? what



... and a second one with a HCI-oriented goal consisting of the creation and evaluation of novel learning tools (future work)





