Java-based graphical user interface for MRUI, a software package for quantitation of in vivo/medical magnetic resonance spectroscopy signals.

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Abstract

This article describes a Java-based graphical user interface for the magnetic resonance user interface (MRUI) quantitation package. This package allows MR spectroscopists to easily perform time-domain analysis of in vivo/medical MR spectroscopy data. We have found that the Java programming language is very well suited for developing highly interactive graphical software applications such as the MRUI system. We also have established that MR quantitation algorithms, programmed in the past in other languages, can easily be embedded into the Java-based MRUI by using the Java native interface (JNI).

Keywords

Java; Graphical user interface (GUI); In vivo/medical magnetic resonance spectroscopy (MRS); Quantitation; MRUI package

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Alexandre Naressi obtained his Engineering degree in Computer Science of the Institut National des Sciences Appliquées, Lyon, France in 1998. He was one of the developers and builders of the graphical user interface (GUI) of the Java-based MRUI package.

César Couturier obtained his Engineering degree in Computer Science of the Institut National des Sciences Appliquées, Lyon, France in 1998. He was one of the developers and builders of the graphical user interface (GUI) of the Java-based MRUI package.

Igor Castang is studying at the Institut National des Sciences Appliquées, Lyon, France, for getting Engineering graduated in Computer Science. He has worked on the Java-based MRUI package in the area of automatic conversion of datafile structures of commercial MR scanners.

Ron de Beer received his Ph.D. degree in physics in 1971 from the Applied Physics Department of the University of Technology Delft, Netherlands. In 1989 he was appointed Associate Professor at this Institute. His present fields of interest are quantitative data analysis of in vivo magnetic resonance (MR) signals and integration of MR signal processing and data analysis techniques into Java-based software systems.

Danielle Graveron-Demilly is Engineering graduate of the Institut National des Sciences AppliquÃ©es, Lyon, France, 1968; she got her Ph.D. in 1970, Lyon and her D.Sc. in 1984, Lyon. Since 1968, she has been an Engineer of Research in the NMR Laboratory, now CNRS UMR 5012, at UniversitÃ© Claude Bernard, Lyon I. She supervises the signal processing group. Her research interests are signal processing for in vivo magnetic resonance (MR) spectroscopy and MR imaging. She co-ordinates the development of the Java-based MRUI software in the context of the European project, TMR, FMRX-CT97-0160.

[1]   On leave from INSA, Lyon.

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Aspect-oriented programming, spouses marry life patterns and levels of differentiation I inherited from their parental families, thus enlightens kutana ridge Dialogic context.
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