


Academic research based on openEHR

If you are using *openEHR* for an academic (including open source) product, and would like to be included on the list, or you want to submit updates or corrections, then [let us know](#)¹.

Current Research

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1. <mailto:webmaster@openehr.org>
 2. <http://www.ufrj.br/>
 3. <http://www.uff.br/>
 4. <http://www.ufmg.br/>



Country	Institution	Team	Description
 Brazil	University of Rio de Janeiro ²	Rigoleta Dutra	PhD Thesis on archetype-based systems [2009]
	Fluminense Federal University ³	Luciana Tricai Cavalini, Helia Kawa, Israel Figueiredo Junior, postgrad/undergrad students	Epidemiologic Surveillance Support System (EpiS3): a decision-support system for epidemiological surveillance (disease control and prevention for communities and healthcare settings). Current activities: <ul style="list-style-type: none"> • Building archetypes in order to fit the interface between clinical and epidemiological concepts • Developing the application on the top of OSHIP (Open Source Health Information Platform), the reference implementation of openEHR specs in Python/Zope3 [2009]
	Minas Gerais Federal University ⁴ School of Information Sciences	Marcelo Rodrigues dos Santos	Phd Thesis on semantic interoperability involving the usage of <i>openEHR</i> RM and AM models. [2009]
	Hospital das Clinicas University of São Paulo Ribeirão Preto School of Medicine ⁵	Center of Information and Analyses (contact: Flavio Barbosa)	Applying archetypes for construction of clinical observations and radiological reports. [May 2009]

2. <http://www.ufrj.br/>

3. <http://www.uff.br/>

4. <http://www.ufmg.br/>

5. http://www.fmrp.usp.br/novo_portal/

 Germany	University of Heidelberg / Heilbronn University	Petra Knaup, Jasmin Buck, Christian Kohl	<ul style="list-style-type: none"> • Expressing Clinical Data Sets with openEHR Archetypes • Modelling of a comprehensive electronic patient record for the Neonatology Department of the University Hospital Heidelberg using the <i>openEHR</i> approach
 Japan	Ehime University ⁶	Shinji KOBAYASHI, Eizen KIMURA, Ken ISHIHARA	Ruby reference implementation of <i>openEHR</i> . Home page ⁷ . [2008-]

6. <http://www.ehime-u.ac.jp/>


7. <http://openehr.jp/>

8. <http://www.ieru.org/>

9. <http://oe.dynalias.net:8080/JSPWebArchetypeOntologizer/>

10. <http://www.upv.es/>

11. <http://www.um.es/>

 Spain	University of Alcalá, Madrid Information Engineering Research Unit ⁸	L. Lezcano, Miguel-Angel Sicilia, P. Serrano-Balazote, E. Rivero-Ruiz	Activities: <ul style="list-style-type: none"> • Development of Java libraries to translate openEHR archetypes to OWL: ADL2OWL translator⁹ • Integrating SWRL rules with archetypes translated to OWL. • Mapping archetypes in OWL form to ontologies. [Dec 2011]
	Technical University of Valencia ¹⁰ , Biomedical Informatics Group *Faculty of Informatics. Murcia University ¹¹ .	David Moner, Jesusaldo Tomás Fernández*, José Alberto Maldonado, Montserrat Robles, Diego Boscá	Activities: <ul style="list-style-type: none"> • Description of existing information as legacy archetypes. • Formalisation of the constraint part of archetypes as semistructured-data types. • Ontological engineering of Archetypes: cooperative development, translation to ontological languages. See LinKEHR editor tool - a generic, schema-based archetype tool - http://www.linkehr.com/ . [June 2009]
	University of Seville ¹³	Isabel Román Martínez	Integration of Federated EHR Systems Using Semantic Web Techniques - the

8. <http://www.ieru.org/>

9. <http://oe.dynalias.net:8080/JSPWebArchetypeOntologizer/>

10. <http://www.upv.es/>

11. <http://www.um.es/>

13. <http://www-en.us.es/>

			<p>integration of heterogeneous systems using the <i>open</i> EHR Reference Model and archetype methodology.</p> <ul style="list-style-type: none"> This has led to the implementation of the <i>openEHR models in OWL</i>¹⁴ (note that these are around 0.95 Release vintage and have not been updated since mid? 2004).[2003-2005] Currently working on SOA for healthcare, using ISO RM/ODP, OMG MDA, <i>openEHR</i> [2009]
<p>Departamento de Informática y Sistemas Campus de Espinardo, Murcia University¹⁵</p>	<p>Jesualdo Tomás Fernández Breis¹⁶ Rafael Valencia García¹⁷ Marcos Menárguez Tortosa Catalina Martínez Costa¹⁸</p>	<p>The POSEACLE project¹⁹ started in 2004 aiming at facilitating a semantic management of electronic healthcare records related information and knowledge. This research project has been done in cooperation with the Biomedical Informatics group²⁰ at the Technical University of Valencia (Spain)²¹ The main objectives are:</p> <ul style="list-style-type: none"> Development of ontologies for the design, generation and use of standardised federated electronic 	
14. http://trajano.us.es/%7Eisabel/EHR/			

15. <http://www.um.es/>

16. <http://webs.um.es/jfernand>



17. <http://webs.um.es/valencia>

18. <http://klt.inf.um.es/%7Ecati>

19. http://webs.um.es/jfernand/miwiki/doku.php?id=projects:poseacle_gen

20. <http://gim.upv.es/>

21. <http://www.upv.es>

		<p>health records;</p> <ul style="list-style-type: none"> • Publishing existing clinical information as a valid extract of an EHR compliant with the European standard; • Intelligent and customised access to existing clinical information compatible with ISO13606 and OpenEHR; • Development of tools supporting clinical investigation. <p>[March 2010]</p>	
 Sweden	Medical Informatics group at the Department of Biomedical Engineering, Linköpings universitet, Sweden ²²	Hans Åhlfeldt et.al.	For current details see: http://www.imt.liu.se/mi/ehr/ Project examples: <ul style="list-style-type: none"> • Exploration of archetype-based approaches to the EHR • Creation of the Java based LiU Archetype Editor [2005-2009]
 UK	CHIME (Centre for Health Informatics and Multi-professional Education), University College London ²⁴	Seref Arikan ²⁵ , Dr. Tony Shannon (chair <i>openEHR</i> CRB), Professor David Ingram (Chair <i>openEHR</i> Foundation, HoD, CHIME, UCL)	Opereffa is a project for creating an open source clinical application which will be driven by the Clinical Review Board of <i>openEHR</i> . It is built on top of a Java based open source framework, which is using the existing open source Java reference implementation of <i>openEHR</i> . See http://opereffa.chime.ucl.ac.uk ²⁶

22. <http://www.imt.liu.se/mi/ehr/>

24. <http://www.chime.ucl.ac.uk/>


25. <http://www.openehr.org/wiki/display/%7Eeserefarikan>

26. <http://opereffa.chime.ucl.ac.uk/>

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Past Research

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27. <http://infocom.cqu.edu.au/hi>
 28. <http://www.healthconnect.gov.au/>

Country	Institution	Team	Description
 Australia	Health Informatics Research Group²⁷ Central Queensland University, Australia In Oct 2007, this group was closed.	Sebastian Garde, Evelyn Hovenga	Development of an <i>openEHR</i> User Interface Generator that employs archetypes, templates, and stylesheets (for the actual design of the user interface) to generate the EHR system's presentation. [2004-2007]
	Distributed Systems Technology Centre (DSTC) (now defunct) (Australia)	Andrew Goodchild, Hoylen Sue, Zar Zar Tun	The HealthConnect project²⁸ is an Australian federal and state government initiative to create a national network of shared EHRs. In May 2002, Ocean Informatics and the DSTC began Phase 1 of a planned multi-phase project to trial <i>openEHR</i> as the basis for the Australian national EHR architecture to underpin HealthConnect and other similar initiatives. Phase 1 of the project entailed detailed requirements and design. It was successfully completed in March 2003. Phase 2 of the project began in January 2004. It involves the development and implementation of <i>openEHR</i> -based software to support a multi-disciplinary clinical trial of diabetes shared care involving hospitals, GPs and allied-health professionals in the Brisbane South GP

27. <http://infocom.cqu.edu.au/hi>

28. <http://www.healthconnect.gov.au/>

		<p>division, Australia. It is the first clinical trial of the <i>openEHR</i> model and archetypes and as such, will provide an important validation of the approach. DSTC's implementation:</p> <ul style="list-style-type: none"> • Based on openEHR release 0.9. • a scalable, secure, shared electronic health record to meet Australias national electronic health record requirements. • Implemented using a combination of XML, Web Services, J2EE, Relational Database, LDAP and PKI. Also supports interfaces with external systems via HL7. Smart card support is also available. The user interface is totally web driven and works with most popular browsers. • Currently supports Hospital Doctors, General Practice, Pathology, Endocrinologists, Ophthalmologists, Dieticians, Diabetes Educators and Podiatrists. Emergency medicine, pharmacy and community nursing to be added soon. <p>Status (1-july-2006): DSTC ceased and development continued into Extensia products (commercial).</p>
	<p>University of</p>	<p>Puvanendran</p>

 <p>Sri Lanka</p>	<p>Moratuwa²⁹ Sri Lanka; Health Development Research Program(HDRP³⁰), Faculty of Medicine, University of Colombo³¹, Sri Lanka</p>	<p>Senthilruban³²</p>	<ul style="list-style-type: none"> • "eCare" - a common gateway for electronic health care, with a plan to use the <i>openEHR</i> architecture and its archetypes for patient profile handling • Research proposal to design a common national distributed electronic health record system for Sri Lanka, based on the <i>openEHR</i> architecture <p>[2004-2005]</p>
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29. <http://www.mrt.ac.lk/>


30. <http://www.hdrp.5u.com/>

31. <http://www.cmb.ac.lk/>

32. <mailto:senthilruban@yahoo.com>

33. <http://www.chime.ucl.ac.uk/>

34. <http://www.manchester.ac.uk/>


 UK	CHIME (Centre for Health Informatics and Multi-professional Education), University College London ³³	David Ingram, Dipak Kalra, David Lloyd, Tony Austin, Nathan Lea, Yin Su Lim, and Tom Beale	<ul style="list-style-type: none"> • Contribution to the <i>openEHR</i> specifications and archetype methodology • Contributions to Java implementation of <i>openEHR</i> core components • Initial investigation into Java J2EE implementation of <i>openEHR</i> EHR, Demographics and archetypes services • Java JNI wrapper for the Ocean Informatics for Eiffel reference ADL parser [2004-2007]
	University of Manchester, UK ³⁴	Prof Alan Rector, Rahil Qamar	<ul style="list-style-type: none"> • Assistance migrating <i>openEHR</i> Archetype Definition Language to other formalisms such as XML • Investigation of the <i>openEHR</i>-GALEN terminology linkage [2004-2007]

33. <http://www.chime.ucl.ac.uk/>

34. <http://www.manchester.ac.uk/>

35. <http://www.mayo.edu/>

36. <mailto:robsmith5@1talltrees.com>

 US	Laboratory for Biomedical Informatics, Mayo Clinic ³⁵ , USA	Peter Elkin	<ul style="list-style-type: none"> Investigating how <i>openEHR</i> archetypes and/or archetype-like structures can be applied to solve problems within Biomedical Informatics
	Ontolog NHIT_EHR, USA	Bob Smith ³⁶	<ul style="list-style-type: none"> "Primary Issues in scaling EHR for full deployment" - validating ontology and <i>openEHR</i> archetype requirements and underlying assumptions

35. <http://www.mayo.edu/>

36. <mailto:robsmith5@1talltrees.com>