

Assessment of Library Collections
Florida International University

Construction Management

College of Engineering and Computing

B.S. and M.S. Programs

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Conference Proceedings

For the College of Engineering and Computing, FIU has access to the following online resources that include conference proceedings: Association for Computing Machinery Digital Library; IEEE/IET Electronic Library; and Springer *Lecture Notes in Computer Science*.

Journals

Library subscriptions by general count

FIU has 4,129 online journals in Engineering and Computer Science fields (Table 1 below). The counter does not have construction management as a discrete category. However, given the planned merger of Department of Construction Management with the Department of Civil and Environmental Engineering to form a new school, the count of 477 online journals for civil and environmental may be a representative for construction management.

The numbers of print-journal subscriptions for Engineering and Computing is small (about 30) and declining; the library is shifting print journals to online access as feasible.

The online-journal packages of importance to Engineering and Computing include ACM Digital Library, American Meteorological Society, American Society of Civil Engineers, American Society of Mechanical Engineers, Annual Reviews Complete, Blackwell-Synergy, Cambridge STM, EDP Sciences, Elsevier ScienceDirect, Emerald Journals, IEEE/IET Electronic Library, InformaWorld, INFORMS PubOnLine, Institute of Physics, JSTOR Arts and Sciences Collections I-IV, MD Consult Core Collection, Nature, SAGE Premier, SpringerLink, and Wiley InterScience.

Citation-ranked literatures

In the citation-ranked journal literature of Construction and Building Engineering, FIU has 18 (63%) of the 27 titles (Table 2 below). In 2003 (the previous program review), FIU had 13 (48%).

Main Databases for Construction Management

- *Applied Science and Technology Full Text*
- *ASCE (American Society of Civil Engineers) Research Library*
- *Compendex (Engineering Index) (includes conference proceedings).*

Other Databases for Construction Management

- *ABI/Inform*
- *Avery Index to Architectural Periodicals*
- *ASFA: Aquatic Sciences and Fisheries Abstracts*
- *Business & Industry*
- *Business & Company Resource Center*
- *Business Full Text*
- *Computer and Information Systems Abstracts (includes conference proceedings)*
- *Conference Papers Index (conference proceedings, etc.)*
- *Dissertations & Theses*
- *EconLit*
- *EIS: Digests of Environmental Impact Statements*
- *Electronics and Communications Abstracts (includes conference proceedings)*
- *Engineering Research Database (includes conference proceedings)*
- *Engineering Village*
- *Environmental Sciences and Pollution Management (includes conference proceedings)*
- *General Business File ASAP*
- *GeoRef*
- *INSPEC (includes conference proceedings)*
- *LexisNexis Academic*
- *Materials Research Database with METADEX (includes conference proceedings)*
- *Mechanical Engineering Abstracts (includes conference proceedings)*
- *MicroPatent Materials Patents*
- *NTIS (National Technical Information Service)*
- *Oceanic Abstracts*
- *PAIS International (includes conference reports)*
- *PapersFirst (conference proceedings, etc.)*
- *Proceedings (conference proceedings, etc.)*
- *Safety Science and Risk*
- *Solid State and Superconductivity Abstracts (includes conference proceedings)*
- *TOXLINE.*

Online Series

- *CRC Handbook of Chemistry & Physics*
- *ENGnetBASE*.

Undergraduate-level Databases: Academic OneFile, Applied Science and Technology Full Text (includes conference proceedings), Biology Digest, General Science Full Text (includes conference proceedings), and OmniFile Full Text Mega (includes conference proceedings).

Books

The book approval plan has a broad subject parameter to receive all titles on *contemporary social or public policy aspects of science, engineering, and technology*, and all engineering handbooks.

For the PhD and the management programs of the College of Engineering and Computing the approval plan covers advanced academic-level books. For professional-level books the library receives notification slips for title selections. Such programs include general technology, biomedical engineering, civil engineering, construction management, mechanical engineering, electrical engineering, electronics, and nuclear engineering.

The library relies on notification slips for direct orders for the following (non-PhD) programs: hydraulic engineering, environmental technology, highway engineering, railroad engineering, bridge engineering, motor vehicles, building construction, aeronautics, mining engineering, and chemical technology.

Of the library's collection of 59,984 NetLibrary e-books, 239 are by subject heading on construction, 411 are on engineering, and 304 are on computer science. *EngNetBase* provides electronic access to 1,152 books/handbooks of which more than 50 are directly related to construction management.

Both campus libraries have expansive budgets for faculty orders of library materials.

Faculty-Library Relations

The College of Engineering and Computing has a Library Committee with 13 members: eight faculty, two associate library directors, the engineering librarian, and the head of access services. It meets at least once a semester, more often when college-wide oversight would be useful for certain projects. For example, the Committee met often in 2008 for a journal review of the PhD program in Material Science, a journal review for Computer Science, and to compile supporting documents for the library's acquisition of the IEEE Electronic Library. In 2009 the Committee completed the review of all other print journals, converting some to online and canceling other titles that were deemed non-essential.

The Engineering Library Services (ELS) at the Engineering Center houses most of the reference materials in engineering. ELS provides access to the following reference resources: *Current R.*

S. Means cost data series (in print with planned conversion to online); *2007 Annual Book of ASTM Standards*; *ASHRAE handbook-CD* (American Society of Heating, Refrigerating and Air-Conditioning Engineers), which includes all four handbooks: Fundamentals, HVAC Applications, HVAC Systems and Equipment, and Refrigeration; *2009 Blue Book Building and Construction for both South Florida and North & Central Florida*; and many other dictionaries, encyclopedias, handbooks and other reference materials relevant to construction management.

Table 1: FIU online-journal counts for Engineering and Applied Sciences

- Applied Mathematics (60)
- Applied Physics (88)
- Chemical & Materials Engineering
 - Chemical Engineering (299)
 - Materials Science (130)
- Civil & Environmental Engineering
 - Civil Engineering (259)
 - Environmental Engineering (88)
 - Ocean Engineering (4)
 - Operations Research (58)
 - Transportation Engineering (68)
- Computer Science (747)
- Electrical & Computer Engineering
 - Electrical Engineering (693)
 - Information Technology (61)
 - Telecommunications (255)
- Engineering - General (167)
- Mechanical Engineering
 - Aeronautics Engineering & Astronautics (99)
 - Automotive Engineering (60)
 - Bioengineering (81)
 - Hydraulic Engineering (15)
 - Industrial & Management Engineering (279)
 - Mechanical Engineering - General (193)
 - Metallurgy & Mineralogy (120)
 - Mining Engineering (62)
 - Nuclear Engineering (34)
- Technology - General (209)

Table 2: FIU Journal Holdings of the Citation-ranked Literature of Construction and Building Engineering

FIU has 18 (67%) of the total 27 titles. In 2003 FIU had 13 (48%). If the five added titles, two are subscriptions, two others have current online access aggregator databases, and one is open-access.

FIU's journals holdings in the citation-ranked literature of CONSTRUCTION & BUILDING TECHNOLOGY			March 2009
Citation-Ranked Titles	Impact Factor	FIU (blank = yes)	Citation Ranking of Titles Missing in FIU Collection
INDOOR AIR-INTERNATIONAL JOURNAL OF INDOOR AIR QUALITY AND CLIMATE	1.385		ranked 1 of 27 in Construction & Building Technology, ranked 4 of 38 in Engineering, Environmental
CEMENT AND CONCRETE RESEARCH	0.738		
JOURNAL OF STRUCTURAL ENGINEERING-ASCE	0.732		
ADVANCES IN CEMENT RESEARCH	0.548	NO	ranked 4 of 27 in Construction & Building Technology, ranked of in Materials Science Multidisciplinary
MAGAZINE OF CONCRETE RESEARCH	0.512	NO	ranked 5 of 27 in Construction & Building Technology, ranked of in Materials Science Multidisciplinary
ACI MATERIALS JOURNAL	0.503		
BUILDING AND ENVIRONMENT	0.492		
HVAC&R RESEARCH	0.477	aggregator	
ACI STRUCTURAL JOURNAL	0.435		
MATERIALS AND STRUCTURES	0.432	NO	Ranked 10 of 27 of Construction & Building Technology, Ranked 19 of 63 in Engineering, Civil, Ranked 112 of 170 in Material Sciences, Multidisciplinary
MATERIALS AND STRUCTURES	0.388	NO	Ranked 11 of 27 in Construction & Building Technology, Ranked 26 of 63 in Engineering, Civil

CEMENT & CONCRETE COMPOSITES	0.371		
ENERGY AND BUILDINGS	0.357		
INDOOR AND BUILT ENVIRONMENT	0.355	aggregator	
JOURNAL OF MATERIALS IN CIVIL ENGINEERING	0.348		
CONSTRUCTION AND BUILDING MATERIALS	0.341	NO	Ranked 16 of 27 in Construction & Building Technology, Ranked 123 of 170 in Materials Science, Multidisciplinary
BUILDING RESEARCH AND INFORMATION	0.329		
JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT-ASCE	0.254		
PCI JOURNAL	0.247		
STRUCTURAL DESIGN OF TALL BUILDINGS	0.211	NO	Ranked 20 of 27 in Construction & Building Technology, Ranked 45 of 63 in Engineering, Civil
ENGINEERING JOURNAL-AMERICAN INSTITUTE OF STEEL CONSTRUCTION INC	0.185		
PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-STRUCTURES AND BUILDINGS	0.179	NO	Ranked 22 of 27 in Construction & Building Technology, Ranked 48 of 63 in Engineering, Civil
TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY	0.124		
CEMENT CONCRETE AND AGGREGATES	0.111	NO	Ranked 24 of 27 in Construction & Building Technology, Ranked 158 of 170 in Materials Science, Multidisciplinary
ASHRAE JOURNAL	0.095		
ZKG INTERNATIONAL	0.087	NO	Ranked 26 of 27 in Construction & Building Technology, Ranked 163 of 170 in Materials Science, Multidisciplinary
MATERIALES DE CONSTRUCCION	0.073	open access	