

Communities ID Cards

This document gather the “ID Cards” of the CC communities found within your database.

The CC network was built by keeping a link between articles sharing at least 5 references. The communities characterized here correspond to the ones found in the level 1 (in the sense of the Louvain algo) which gathers more than 0 articles.

These ID cards displays the most frequent keywords, subject categories, journals of publication, institution, countries, authors, references and reference journals of the articles of each community. The significance of an item $\sigma = \sqrt{N}(f - p) / \sqrt{p(1 - p)}$ [where N is the number of articles within the community and f and p are the proportion of articles respectively within the community and within the database displaying that item] is also given (for example $\sigma > 5$ is really highly significant). The tf-idf value which can be calculated by $tf - idf = f * \log(frac{1}{p})$ is also given.

Table 1: The community 0 - “REMANUFACTURING” contains $N = 4$ articles. Its average internal link weight is $\langle \omega_{in} \rangle \simeq 1/6$

| Keyword | f(%) | tf-idf | Institution | f(%) | σ |
|--|--------|----------|--------------------------|-------|----------|
| REMANUFACTURING | 50.75 | 2.33 | GEORGIA INST TECHNOL | 20.29 | 62.17 |
| REVERSE LOGISTICS | 19.40 | 1.04 | COLL MANAGEMENT | 20.29 | 64.32 |
| CLOSED-LOOP SUPPLY CHAINS | 17.91 | 0.96 | INSEAD | 10.14 | 37.40 |
| SUSTAINABILITY | 11.94 | 0.57 | PENN STATE UNIV | 7.25 | 28.83 |
| ENVIRONMENT | 10.45 | 0.54 | MOORE SCH BUSINESS | 5.80 | 30.24 |
| RECYCLING | 8.96 | 0.53 | SMEAL COLL BUSINESS | 5.80 | 28.89 |
| SOCIAL WELFARE | 7.46 | 0.49 | UNIV S CAROLINA | 5.80 | 26.64 |
| SUSTAINABLE OPERATIONS | 8.96 | 0.48 | MONTREAL | 4.35 | 20.74 |
| BY-PRODUCT SYNERGY | 5.97 | 0.47 | MCGILL UNIV | 4.35 | 23.21 |
| OM-MARKETING INTERFACE | 7.46 | 0.47 | UNIV CALIF LOS ANGELES | 4.35 | 16.76 |
| REUSE ECONOMICS | 5.97 | 0.45 | UNIV PENN | 2.90 | 11.43 |
| PRODUCT RETURNS | 7.46 | 0.42 | UNIV FLORIDA | 2.90 | 17.86 |
| ENVIRONMENTAL SUSTAINABILITY | 4.48 | 0.36 | DARDEN SCH BUSINESS | 2.90 | 23.11 |
| QUALITY GRADING | 4.48 | 0.36 | OWEN GRAD SCH MANAGEMENT | 2.90 | 18.49 |
| CLOSED-LOOP SUPPLY CHAIN | 4.48 | 0.36 | ANDERSON SCH MANAGEMENT | 2.90 | 15.43 |
| UPGRADING | 4.48 | 0.35 | UNIV VIRGINIA | 2.90 | 18.49 |
| REUSABILITY | 4.48 | 0.35 | WHARTON SCH | 2.90 | 11.59 |
| USED PRODUCT SORTING | 4.48 | 0.35 | UNIV MARYLAND | 2.90 | 10.97 |
| PRODUCT DESIGN | 5.97 | 0.34 | VANDERBILT UNIV | 2.90 | 17.86 |
| PRICING | 8.96 | 0.34 | INDIANA UNIV | 2.90 | 9.54 |
| Subject | f(%) | σ | Country | f(%) | σ |
| Operations Research & Management Science | 100.00 | 0.00 | Usa | 53.62 | 34.19 |
| Engineering, Manufacturing | 76.81 | 7.42 | France | 11.59 | 39.57 |
| Management | 23.19 | -7.43 | Canada | 8.70 | 17.65 |
| | | | Turkey | 2.90 | 16.28 |
| | | | Singapore | 2.90 | 10.82 |
| | | | Netherlands | 1.45 | 4.57 |
| | | | Peoples r china | 1.45 | 2.94 |
| Journal | f(%) | σ | Author | f(%) | σ |
| PROD OPER MANAG | 76.81 | 7.42 | Van Wassenhove LN | 21.74 | 18.04 |
| M&SOM-MANUF SERV OP | 20.29 | 1.80 | Atasu A | 15.94 | 22.60 |
| J OPER MANAG | 2.90 | -8.28 | Guide VDR | 11.59 | 14.96 |
| | | | Souza GC | 11.59 | 17.63 |
| | | | Galbreth MR | 10.14 | 25.28 |
| | | | Toktay LB | 10.14 | 14.76 |
| | | | Subramanian R | 10.14 | 12.00 |
| | | | Ovchinnikov A | 7.25 | 18.85 |
| | | | Kleindorfer PR | 7.25 | 12.17 |
| | | | Boyaci T | 7.25 | 13.36 |

| Reference | f(%) | σ |
|--|-------|----------|
| Ferguson ME, 2006, PROD OPER MANAG (15), 351 | 59.42 | 535.65 |
| Majumder P, 2001, PROD OPER MANAG (10), 125 | 56.52 | 492.35 |
| Guide v d r JR, 2003, Manufacturing & Service Operations Management (5), 0 | 52.17 | 478.01 |
| Debo LG, 2005, MANAGE SCI (51), 1193 | 50.72 | 355.67 |
| Savaskan RC, 2004, MANAGE SCI (50), 239 | 42.03 | 332.76 |
| Ferrer G, 2006, MANAGE SCI (52), 15 | 37.68 | 398.87 |
| Guide VDR, 2001, PROD OPER MANAG (10), 142 | 31.88 | 237.31 |
| Toktay LB, 2000, MANAGE SCI (46), 1412 | 28.99 | 280.58 |
| Atasu A, 2008, PROD OPER MANAG (17), 483 | 28.99 | 335.53 |
| Guide VDR, 2000, J OPER MANAG (18), 467 | 27.54 | 184.51 |
| Fleischmann M, 2001, PROD OPER MANAG (10), 156 | 27.54 | 272.47 |
| Fleischmann M, 1997, EUR J OPER RES (103), 1 | 24.64 | 158.17 |
| Atasu A, 2008, MANAGE SCI (54), 1731 | 23.19 | 345.04 |
| Guide VDR, 2006, MANAGE SCI (52), 1200 | 21.74 | 267.79 |
| Guide VDR, 2010, DECISION SCI (41), 547 | 18.84 | 286.64 |
| Hauser W, 2003, REMANUFACTURING IND (0), 0 | 18.84 | 260.34 |
| Thierry M, 1995, CALIF MANAGE REV (37), 114 | 18.84 | 133.56 |
| Corbett CJ, 2001, PROD OPER MANAG (10), 107 | 18.84 | 166.43 |
| Guide jr v d R, 2003, BUSINESS ASPECTS CLO (0), 0 | 18.84 | 202.14 |
| Galbreth MR, 2006, PROD OPER MANAG (15), 384 | 17.39 | 267.99 |
| Ferguson M, 2006, M&SOM-MANUF SERV OP (8), 376 | 15.94 | 226.01 |
| Kleindorfer PR, 2005, PROD OPER MANAG (14), 482 | 14.49 | 66.14 |
| Blackburn JD, 2004, CALIF MANAGE REV (46), 6 | 14.49 | 113.91 |
| Van der laan E, 1999, MANAGE SCI (45), 733 | 14.49 | 146.87 |
| Dekker R, 2004, REVERSE LOGISTICS QU (0), 0 | 14.49 | 114.37 |
| RefJournal | f(%) | σ |
| PROD OPER MANAG | 56.52 | 47.02 |
| MANAGE SCI | 53.62 | 34.59 |
| Manufacturing & Service Operations Management | 31.88 | 38.35 |
| EUR J OPER RES | 26.09 | 26.08 |
| CALIF MANAGE REV | 24.64 | 32.89 |
| OPER RES | 24.64 | 21.98 |
| J OPER MANAG | 21.74 | 18.88 |
| INTERFACES | 18.84 | 27.75 |
| MARKET SCI | 17.39 | 23.34 |
| BUSINESS ASPECTS CLO | 15.94 | 92.75 |

Table 2: The community 1 - “REMANUFACTURING” contains $N = 4$ articles. Its average internal link weight is $\langle \omega_{in} \rangle \simeq 1/7$

| Keyword | f(%) | tf-idf |
|--|--------|----------|
| REMANUFACTURING | 47.69 | 2.19 |
| REVERSE LOGISTICS | 16.92 | 0.91 |
| QUEUEING | 10.77 | 0.68 |
| PRODUCT ACQUISITION | | |
| MANAGEMENT | 9.23 | 0.67 |
| CLOSED-LOOP SUPPLY CHAINS | 10.77 | 0.58 |
| PRODUCTION PLANNING AND | | |
| CONTROL | 6.15 | 0.51 |
| USED PRODUCT SORTING | 6.15 | 0.48 |
| SIMULATION | 10.77 | 0.44 |
| PRODUCTION PLANNING | 7.69 | 0.43 |
| CASH SUPPLY CHAIN | 6.15 | 0.40 |
| PRICING | 10.77 | 0.40 |
| SUSTAINABILITY | 7.69 | 0.37 |
| ASSEMBLY LINES | 4.62 | 0.36 |
| ENTRY-DETERRENT STRATEGIES | 4.62 | 0.34 |
| RANDOM YIELD | 4.62 | 0.30 |
| COMPETITIVE ADVANTAGE | 4.62 | 0.29 |
| VALUE OF INFORMATION | 4.62 | 0.26 |
| DELAYED DIFFERENTIATION | 3.08 | 0.25 |
| MULTIPLE LIFECYCLE | 3.08 | 0.25 |
| CLSC | 3.08 | 0.25 |
| Subject | f(%) | σ |
| Operations Research & Management Science | 100.00 | 0.00 |
| Engineering, Manufacturing | 63.77 | 5.14 |
| Management | 36.23 | -5.14 |
| Journal | f(%) | σ |
| PROD OPER MANAG | 63.77 | 5.14 |
| J OPER MANAG | 27.54 | -4.18 |
| M&SOM-MANUF SERV OP | 8.70 | -1.06 |

| Institution | f(%) | σ |
|------------------------------|-------|----------|
| PENN STATE UNIV | 13.04 | 52.03 |
| INSEAD | 10.14 | 37.40 |
| COLL MANAGEMENT | 8.70 | 27.44 |
| COLL BUSINESS | 8.70 | 20.39 |
| SMEAL COLL BUSINESS | 8.70 | 43.40 |
| GEORGIA INST TECHNOL | 7.25 | 22.06 |
| UNIV MARYLAND | 5.80 | 22.11 |
| SCH MANAGEMENT | 5.80 | 12.51 |
| DUQUESNE UNIV | 4.35 | 42.54 |
| ROBERT H SMITH SCH BUSINESS | 4.35 | 19.94 |
| UNIV WESTERN ONTARIO | 4.35 | 19.94 |
| DEPT MANAGEMENT | 4.35 | 8.30 |
| LONDON | 4.35 | 19.94 |
| DEPT SUPPLY CHAIN & INFORMAT | | |
| SYST | 4.35 | 31.38 |
| UNIV MIAMI | 2.90 | 18.49 |
| UNIV FLORIDA | 2.90 | 17.86 |
| WHARTON SCH | 2.90 | 11.59 |
| AJ PALUMBO SCH BUSINESS ADM | 2.90 | 40.13 |
| COLORADO STATE UNIV | 2.90 | 23.11 |
| SMEAL COLL BUSINESS ADM | 2.90 | 49.17 |
| Country | f(%) | σ |
| Usa | 52.17 | 33.24 |
| Canada | 10.14 | 20.64 |
| France | 10.14 | 34.60 |
| Turkey | 1.45 | 8.08 |
| Australia | 1.45 | 7.86 |
| Italy | 1.45 | 9.55 |
| Singapore | 1.45 | 5.32 |
| Sweden | 1.45 | 14.13 |
| Greece | 1.45 | 11.51 |
| England | 1.45 | 3.89 |
| Author | f(%) | σ |
| Guide VDR | 28.99 | 38.17 |
| Souza GC | 17.39 | 26.67 |
| Van Wassenhove LN | 14.49 | 11.76 |
| Ketzenberg ME | 10.14 | 15.30 |
| Akcali E | 7.25 | 26.05 |
| Blackburn JD | 5.80 | 17.91 |
| Jayaraman V | 5.80 | 6.85 |
| Toktay LB | 5.80 | 8.24 |
| Klassen RD | 5.80 | 4.28 |
| Galbreth MR | 5.80 | 14.33 |

| Reference | f(%) | σ |
|---|-------|----------|
| Guide VDR, 2000, J OPER MANAG (18), 467 | 69.57 | 466.29 |
| Guide VDR, 2001, PROD OPER MANAG (10), 142 | 57.97 | 431.54 |
| Thierry M, 1995, CALIF MANAGE REV (37), 114 | 42.03 | 298.06 |
| Fleischmann M, 1997, EUR J OPER RES (103), 1 | 36.23 | 232.65 |
| Guide v d r JR, 2003, Manufacturing & Service | | |
| Operations Management (5), 0 | 31.88 | 292.09 |
| Guide VDR, 2003, J OPER MANAG (21), 259 | 30.43 | 243.28 |
| Guide VDR, 2000, INTERFACES (30), 125 | 28.99 | 305.32 |
| Ferrer G, 2001, PROD OPER MANAG (10), 112 | 28.99 | 269.00 |
| Savaskan RC, 2004, MANAGE SCI (50), 239 | 28.99 | 229.46 |
| Van der laan E, 1999, MANAGE SCI (45), 733 | 24.64 | 249.72 |
| Guide VDR, 1998, J OPER MANAG (16), 551 | 23.19 | 290.49 |
| Klausner M, 2000, INTERFACES (30), 156 | 23.19 | 360.14 |
| Krikke HR, 1999, OR SPEKTRUM (21), 381 | 21.74 | 306.20 |
| Toktay LB, 2000, MANAGE SCI (46), 1412 | 20.29 | 196.39 |
| Majumder P, 2001, PROD OPER MANAG (10), 125 | 20.29 | 176.69 |
| Fleischmann M, 2001, PROD OPER MANAG (10), 156 | 17.39 | 172.06 |
| Dekker R, 2004, REVERSE LOGISTICS QU (0), 0 | 17.39 | 137.27 |
| Fleischmann M, 2000, THESIS ERASMUS U ROT (0), 0 | 15.94 | 206.53 |
| King AA, 2001, PROD OPER MANAG (10), 244 | 15.94 | 110.71 |
| Debo LG, 2005, MANAGE SCI (51), 1193 | 15.94 | 111.72 |
| Guide jr v d R, 2003, BUSINESS ASPECTS CLO (0), 0 | 15.94 | 171.03 |
| Guide VDR, 1997, INT J PROD RES (35), 3179 | 14.49 | 255.03 |
| Ray S, 2005, Manufacturing & Service Operations | | |
| Management (7), 0 | 14.49 | 224.48 |
| Corbett CJ, 2001, PROD OPER MANAG (10), 107 | 13.04 | 115.19 |
| Corbett CJ, 2001, PROD OPER MANAG (10), 327 | 13.04 | 78.54 |
| RefJournal | f(%) | σ |
| J OPER MANAG | 49.28 | 43.77 |
| MANAGE SCI | 47.83 | 30.74 |
| PROD OPER MANAG | 46.38 | 38.43 |
| CALIF MANAGE REV | 37.68 | 50.57 |
| EUR J OPER RES | 34.78 | 34.99 |
| INTERFACES | 28.99 | 42.94 |
| HARVARD BUS REV | 24.64 | 22.35 |
| INT J PROD RES | 24.64 | 34.62 |
| OPER RES | 21.74 | 19.30 |
| Manufacturing & Service Operations Management | 17.39 | 20.66 |