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Sage towards differential geometry and tensor calculus. Like Sage, SageManifolds is free, open-source and

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Software The
is based on the Python programming language. We discuss here some details of the implementation, which relies on Sage's parent/element framework, and present a concrete example of use. 1.
Introduction

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the SageManifolds

project Eric
Gourgoulhon, Michal
Bejger, Marco Mancini
(Submitted on 15 Dec
2014 (v1), last revised
21 Dec 2014 (this
version, v2)) The
SageManifolds project
aims at extending the
mathematics software
system Sage towards
differential geometry
and tensor calculus.

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source software: the

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the SageManifolds
project - NASA/ADS.

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here some details of the implementation, which relies on Sage's parent/element framework, and present a concrete example of use.

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Tensor calculus with open-source software: the SageManifolds project
Eric Gourgoulhon¹, Michaël Bejger², Marco

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Manifolds Generally
speaking, amanifoldis a

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space that with curvature and complicated topology that locally looks like

\mathbb{R}^n . Examples: \mathbb{R}^n itself.

\mathbb{R} is a line and \mathbb{R}^2 a

plane. The n -sphere,

S_n ; that is, the locus of

all points some fixed

distance from the

origin in \mathbb{R}^{n+1} . S^1 is a

circle and S^2 sphere.

The n -torus T_n . T^2 is

the surface of a

doughnut. A Riemann

surface of genus g .

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Gravitation: Tensor Calculus - An Introduction to General ...

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Like Sage, SageManifolds is free, open- source and is based on the Python programming language.

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...

In mathematics, tensor calculus, tensor analysis, or Ricci calculus is an extension of vector calculus to tensor fields (tensors that may vary over a manifold, e.g. in spacetime).. Developed by Gregorio Ricci-Curbastro and his student Tullio Levi-

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Civita, it was used by

Albert Einstein to
develop his theory of
general

relativity. Contrasted
with the infinitesimal
calculus, tensor
calculus allows ...

Tensor calculus - Wikipedia

From what I've seen,
tensor calculus seems
very abstract and more
towards the proving
side of the spectrum
(like a pure

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mathematics subject),
it doesn't look
"practicable" as appose
to other calculus

courses where I could
go to any chapter in
the textbook and find
many problems to
practice and become
familiar with the
concept.

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source computer

algebra system
designed for symbolic
tensor manipulation.

Redberry provides
common tools for
expression

manipulation,
generalized on
tensorial objects, as
well as tensor-specific
features: indices
symmetries, LaTeX
-style input, natural
dummy indices
handling, multiple
index types etc.

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Calculus 1 | Math | Khan Academy

Tensor calculus is introduced, along with derivative operators such as div, grad, curl and Laplacian. The final section covers the integral theorems of Gauss and Stokes, with a physical representation of div and curl, and scalar and vector potentials.

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ATA is a tensor

calculus package made

for general purpose,

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easy to use with good looking formula display. This package was built for computing large tensor equations with the least amount of time. This package is unique in the sense that it allows you to input tensors in their tensor form and it has a simple framework.

**Advanced Tensor
Analysis -- from
Wolfram Library
Archive**

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In mathematics, Ricci calculus constitutes the rules of index notation and manipulation for tensors and tensor fields. It is also the modern name for what used to be called the absolute differential calculus (the foundation of tensor calculus), developed by Gregorio Ricci-Curbastro in 1887–1896, and subsequently popularized in a paper

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written with his pupil
Tullio Levi-Civita in

1900.

Ricci calculus - Wikipedia

Two good ways or
paths to get to tensor
calculus are 1) through
vector

analysis/calculus and
differential geometry ,
and 2) through
linear/multilinear
algebra and matrices.
Having knowledge of
both paths makes it

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easier to study and
understand ten...

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How long would it take to learn enough tensor calculus to ...

There are only two
open source GR/tensor
packages that I am
aware of, Cadabra
(coordinate-free) and
Maxima/xwMaxima
(coordinate based,
ctensor, itensor and
atensor packages)

differential

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geometry - Open source computer algebra ...

Definition. The Einstein tensor is a tensor of order 2 defined over pseudo-Riemannian manifolds. In index-free notation it is defined as $E = -\frac{1}{2}Rg$, where R is the Ricci tensor, g is the metric tensor and R is the scalar curvature. In

component form, the previous equation reads as $E_{ij} = -\frac{1}{2}R_{ij}g_{ij}$. The Einstein tensor is

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symmetric = and, like
the on shell
stress-energy tensor,
divergenceless

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